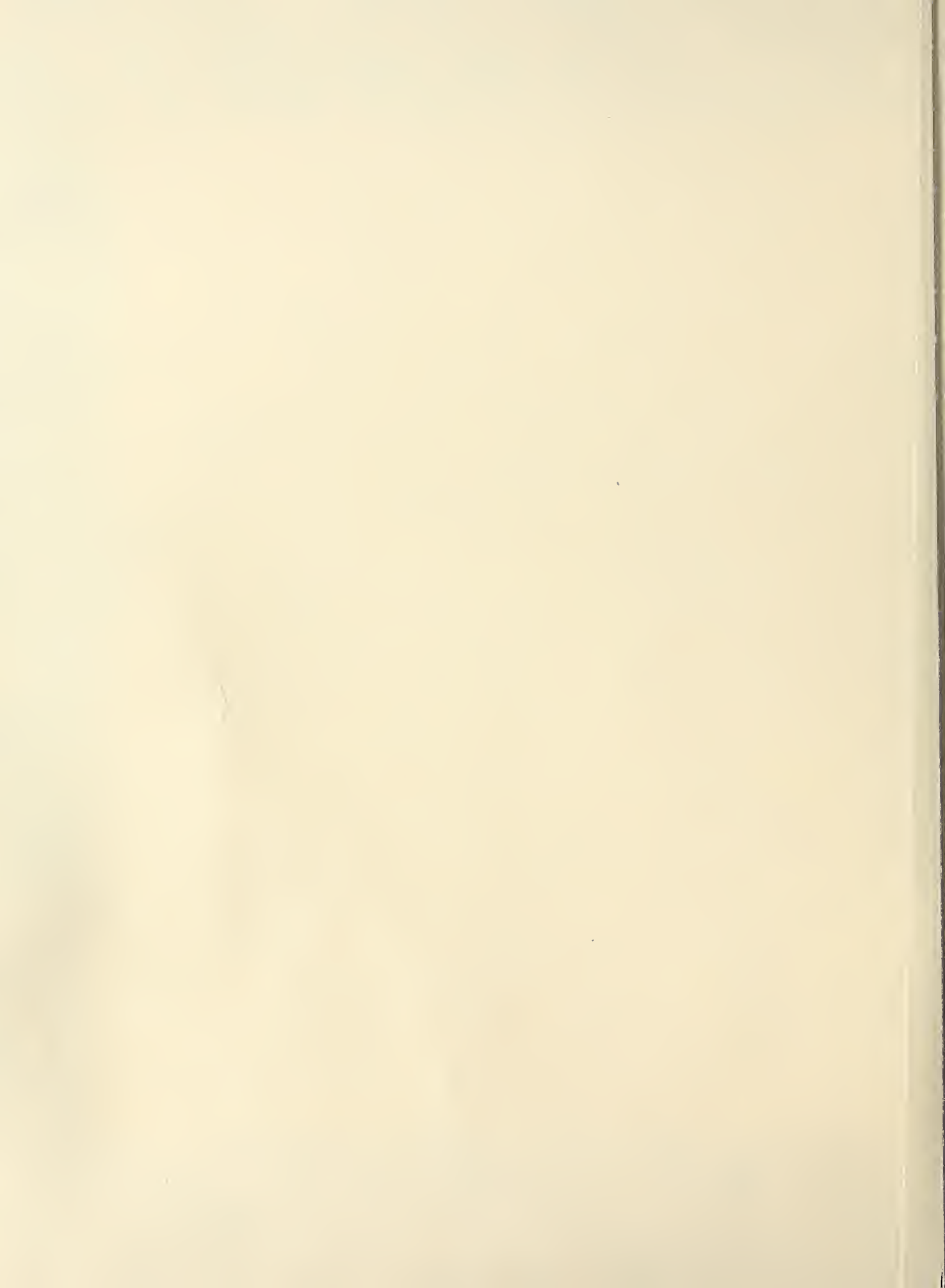


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**Soil-Vegetation-Hydrology Studies**  
**Volume III. Appendix**

U.S. Department of Agriculture  
Agricultural Research Service

**United States  
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## PREFACE

This publication contains results of Agricultural Research Service (ARS) - Bureau of Land Management (BLM) cooperative research conducted in southeastern Montana from 1968 to 1981. The publication is the deliverable product from the ARS to the BLM as specified in the cooperative agreement. It is presented in two volumes and an appendix:

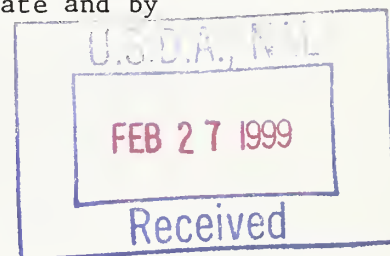
Volume I contains project history and background; summary research results; recommendations for field application of contour furrowing; recommendations for disposition of research facilities; and a bibliography of pertinent range research publications written by scientists at the Northern Plains Soil and Water Research Center, Sidney, Montana.

Volume II is a User's Manual for the Ekalaka Rangeland Hydrology and Yield Model (ERHYM). It contains the model description; model documentation, input and output parameters, and an example of model use in which model output is compared with field measured data.

The appendix contains detailed listing of raw research data with no analysis or interpretation. Data included are: Hydrology and climate; soil chemical and physical characteristics; vegetation composition and yield; and soil water measurements by date and by soil horizon.

Copies of these may be obtained by request to:

USDA, Agricultural Research Service  
Northern Plains Soil and Water Research Center  
P. O. Box 1109  
Sidney, Montana 59270  
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## INTRODUCTION

Table 1. Daily rainfall, runoff, pan evaporation, and temperature.

Table 1 lists climatic data from the cooperative soil-vegetation-hydrology research location. Daily rainfall is the average of the catch of the recording rain gage network on each site. Rainfall marked with an asterisk has been adjusted by applying a correction factor to the raw data. The correction factor was determined from a special gage arrangement on sites 1 and 2. A normally exposed-recording rain gage with its orifice 40 inches above the ground surface was located near a recording rain gage placed in a pit with its orifice at ground level. These gages were used to determine the difference between the catch in normally exposed gages and the amount of rain that actually reached the ground surface. These data were used to adjust rainfall totals on a storm-by-storm basis by first calculating the ratio between the pit gage and the surface gage catch and then multiplying the catch in all other surface gages in the rain gage network by this ratio. The pit gages were operated only during the rainfall season each year. Daily runoff is the average for the nonfurrowed watersheds on each site. Evaporation records were taken from a Weather Bureau Class A pan equipped with a water-supply tank and a float valve that maintained a constant water depth in the pan. The maximum and minimum temperature records are from the U. S. Weather Bureau Station in Ekalaka, Montana, located approximately 15 miles north of the study sites.



Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
January 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
	Inches								
1								30	-16
2								-8	-22
3								7	-17
4								35	-12
5								36	-18
6								-4	-22
7								20	-21
8								35	-2
9								26	-15
10								41	7
11								40	4
12								27	-7
13								30	7
14								45	7
15								49	20
16								48	23
17								40	22
18								38	15
19								48	32
20								49	30
21								49	35
22								43	22
23								44	28
24								55	33
25								49	28
26								30	10
27								21	5
28								7	
29								28	
30								43	
31								36	9
								33.5	6.7

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
February 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	- - - - -			Inches	- - - - -			- - °F - -	
1								35	16
2								43	13
3								47	23
4								50	19
5								44	29
6								37	15
7								39	21
8								32	14
9								42	21
10								38	23
11								31	12
12								14	2
13								22	5
14								23	10
15								29	9
16								22	2
17								18	-15
18								37	7
19								37	17
20								18	7
21								19	6
22								19	9
23								47	13
24								45	30
25								43	31
26								43	24
27								35	27
28								34	22
29								53	24
30									
31									
								34.3	15.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
March 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
	Inches								
1								49	25
2								43	31
3								53	23
4								56	35
5								60	26
6								60	35
7								58	32
8								49	32
9									
10								38	20
11								38	16
12								49	21
13								49	28
14								48	28
15								52	38
16								62	27
17								63	25
18								52	23
19								28	18
20								27	19
21								28	12
22								43	4
23								67	24
24								58	31
25								57	30
26								51	35
27								58	44
28								57	39
29								68	29
30								64	28
31								48	15
								51.1	26.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
April 1968.

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----			-----	--°F--	
	Inches								
1								57	22
2								47	19
3								25	12
4								39	4
5								64	24
6								54	37
7								38	31
8								45	25
9								56	24
10								69	32
11								77	43
12								56	28
13								34	28
14								56	23
15								68	39
16								48	32
17								41	22
18								49	18
19								58	29
20								53	32
21								43	27
22								47	26
23								56	23
24								58	34
25								55	24
26								57	30
27								57	23
28								64	30
29								76	38
30								82	46
31									
								54.3	27.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature, May 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
1								79	46
2								69	43
3								61	25
4								61	28
5								67	38
6								62	36
7								51	36
8								48	33
9								61	22
10								60	24
11								56	19
12								75	32
13								73	48
14								70	49
15								52	40
16								54	28
17								53	38
18								52	35
19								45	31
20								60	24
21								68	46
22		0.2						64	46
23								61	42
24								59	44
25								60	41
26								65	38
27		.2						62	50
28								72	36
29		.8	0.9					78	44
30								76	50
31								71	36
Total		1.2	0.9					62.7	37.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature, June 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----			-----	-----°F-----	
1								74	41
2								87	49
3								85	50
4		0.5	0.5					83	51
5		.2	.1					57	47
6		.2	.2					57	51
7		.3	.2					63	52
8		.2	.2					64	53
9								72	53
10		.2	.2					64	51
11								69	44
12			.1					81	51
13		.2	.2					76	48
14		.1						76	43
15		.3	.4					77	46
16								77	35
17								72	45
18								79	49
19								86	53
20		.3	.3					86	54
21								78	47
22								79	46
23		.1	.1					68	56
24		.3	.3					62	50
25		.1	.1					63	44
26								78	40
27		.3	.2					85	56
28								85	48
29			.1					69	49
30		.4	.2						
31									
Total		3.7	3.4					74.2	48.3

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature, July 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
	Inches								
1								61	44
2								74	39
3								81	47
4								84	46
5								82	48
6								87	58
7								92	52
8								75	51
9								85	51
10								94	65
11								94	60
12								94	59
13								92	55
14								93	56
15								91	62
16								89	65
17			0.1					84	56
18								76	43
19								92	56
20								90	64
21								84	48
22								87	51
23	0.1	0.1						85	55
24	.7	0.7	.6					72	65
25	.1	.1	.1					80	56
26								81	62
27								80	55
28	.6	.5	.5	.04				81	56
29	.1							89	58
30								88	60
31								69	42
Total	1.6	1.4	1.3	.04				84.1	54.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
August 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-- °F --	
	Inches								
1								83	45
2								90	48
3								88	55
4								90	60
5								94	50
6								93	56
7								90	59
8			0.1*					85	54
9	0.1	0.1*						80	49
10								68	51
11								80	45
12								80	48
13								79	51
14								79	52
15								71	54
16	.2*	.3*	.1*					60	45
17								63	43
18	.3*	.3*	.3*					61	42
19								77	47
20								84	48
21	.4*	.4*	.5*					86	61
22								84	55
23	2.2*	2.0*	2.0*			0.37		79	51
24								78	50
25								79	52
26								82	43
27								83	44
28								82	58
29								82	40
30								80	35
31								72	39
Total	3.2	3.1	3.0			0.37		80.1	49.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
September 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
	Inches								
1								82	44
2	0.1*	0.1	0.1*					69	49
3								60	42
4								61	40
5								65	38
6								77	37
7	.1*	.1*	.1*					73	50
8								63	48
9								79	42
10								84	52
11								86	53
12								82	59
13								82	51
14								88	60
15								72	47
16	.1	.1*	.1*					58	51
17								60	31
18								79	48
19								78	45
20								75	53
21	.1		.1*					75	42
22								62	33
23								64	43
24								62	35
25								70	33
26								69	35
27								81	45
28								73	40
29								75	42
30								77	45
31									
Total	0.4	0.3	0.4					72.7	44.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
October 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
	Inches								
1	0.1	0.1*	0.1					78	41
2		.1						70	31
3								52	17
4								72	30
5								68	37
6								67	32
7			.1					51	34
8								50	25
9								56	20
10								67	30
11								65	24
12								78	42
13								72	34
14	.4*	.3*	.3*					61	43
15								56	40
16								44	30
17								46	25
18								56	16
19								58	32
20								71	31
21								55	41
22								53	23
23								45	33
24								61	25
25								70	30
26								65	31
27	.1	.1						57	26
28								70	25
29								75	32
30								74	34
31								58	40
Total	0.6	0.6	0.5					62.0	30.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
November 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----			-----				-- °F --	
1								47	20
2								55	24
3								58	28
4	0.2	0.2	0.3					49	32
5	.1	.2	.1					34	26
6								32	25
7								34	25
8								40	22
9	.1	.1	.1					39	24
10								37	18
11								46	17
12	.1	.1	.1					52	31
13								45	28
14								38	24
15								41	17
16	.2	.2						38	20
17	.3	.3						25	15
18								32	-4
19								35	12
20								56	30
21								56	30
22	.1	.1	.1					52	39
23								48	40
24								43	22
25								36	27
26								40	28
27								46	30
28								40	12
29								39	18
30								42	29
31									
Total	1.1	1.2	0.7					42.5	23.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
December 1968

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
1	0.3	0.3						34	26
2								27	12
3								32	12
4	.1							38	20
5								25	2
6	.1	.1						20	14
7								22	-6
8								46	19
9								40	20
10								50	28
11								49	34
12	.4	.1						40	2
13	.1							17	-9
14								19	3
15								40	10
16								43	18
17									
18								29	23
19		.1						24	2
20								15	-8
21								12	-7
22		.1						7	-6
23								18	-15
24								19	5
25		.2						21	1
26								30	10
27								15	-4
28								20	-9
29								-3	-28
30		.6						-18	-28
31								5	-18
Total	1.0	1.5						24.5	4.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
January 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
	Inches								
1		0.1						40	-4
2								18	-4
3								20	-15
4								36	4
5								42	28
6								33	14
7								42	18
8								32	-10
9								24	-14
10								15	-1
11								9	-1
12								14	-3
13								15	-7
14								36	13
15								28	12
16								25	8
17								31	4
18								20	-12
19								25	-10
20								1	-8
21								5	-6
22								-2	-15
23								-2	-20
24								-8	-33
25								2	-28
26		.3						19	-8
27								23	-18
28								-2	-22
29								-1	-10
30								12	-25
31								20	-18
	0.4							18.5	-6.2

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
February 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
	Inches								
1								30	12
2								27	12
3								34	9
4								40	12
5								42	15
6								30	5
7		0.7						10	1
8								40	-2
9								45	25
10								35	11
11								31	3
12	0.1							23	10
13	.1							27	9
14								31	14
15								30	9
16								27	18
17								27	19
18								27	3
19								27	12
20	.1	.1						31	18
21								27	10
22								20	3
23								25	5
24								27	12
25								36	21
26								33	24
27								27	10
28	.1	.1						33	4
29									
30									
31									
	0.4	0.9						30.1	10.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
March 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
1	0.1							32	12
2								27	16
3								24	14
4								38	11
5								40	11
6								28	6
7								19	8
8		0.1						11	-12
9								13	6
10								20	5
11								24	-6
12		.1						20	11
13								20	12
14								31	12
15								42	9
16								49	35
17								52	35
18	.1	.1						54	30
19								44	32
20								39	24
21								50	29
22								44	29
23	.3							35	28
24								32	24
25								36	9
26								43	28
27								54	23
28								44	10
29								26	11
30								34	15
31								67	28
Total	0.5	0.3						35.2	16.3

Note: Blank spaces indicate no data.  
NR indicates no data.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
April 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				--°F--	
	Inches								
1								60	40
2								67	32
3								63	36
4								61	24
5								69	39
6								81	47
7								71	41
8	0.3	0.2	0.2					64	33
9								48	32
10								68	32
11								76	37
12								71	35
13								78	40
14	.2	.2	.2					72	36
15								42	37
16								53	35
17								62	25
18								70	41
19								70	40
20	.1	.1	.1					61	39
21								62	23
22								70	41
23								72	44
24								80	47
25		.4	.1					76	30
26	.5		.2	0.06	0.02			38	28
27				.10	.20	0.02		38	24
28				.20	.10	.20		45	15
29				.05	.05	.05		64	32
30				.02				68	32
31									
Total	1.1	0.9	0.8	0.43	0.37	0.27		64	34.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
May 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
	Inches								
1								56	29
2								65	32
3								71	48
4								66	47
5								67	42
6								69	36
7								68	39
8							.14	59	32
9							NR	72	36
10							.53	66	29
11							.12	63	26
12							.34	75	40
13							.29	82	42
14							.41	82	57
15							.31	77	46
16							.12	53	36
17	0.1	0.2*		0.01			NR	52	37
18							.34	69	36
19							.19	64	42
20	.2	.1	.2				NR	60	47
21	.2	.3	.2				NR	51	32
22							NR	63	27
23							NR	74	36
24							.12	81	44
25							.26	83	54
26							.43	89	58
27							.48	91	49
28							.43	90	48
29							.41	85	42
30							.36	84	47
31	.3	.4	.4				NR	70	43
Total	0.8	1.0	0.9	0.01				70.9	40.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
June 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	- - - - -			Inches			- - - - -	- - °F - -	
1							NR	59	39
2							.14	72	32
3							NR	77	42
4							.55	83	45
5							.36	90	56
6	0.4	0.5	0.6				.43	89	58
7	.6	.3	.6	0.4			.19	79	56
8							NR	65	57
9							NR	78	51
10							NR	77	42
11							.24	66	35
12	.3	.2*	.1				NR	67	35
13		.1*	.2				NR	58	32
14							NR	65	37
15							.30	71	36
16							.33	71	32
17							.42	75	43
18							.47	82	49
19							.24	79	50
20	.1	.1	.1				.11	61	42
21							.28	77	50
22							.32	76	52
23							.21	74	57
24	.3*	.6*	.4*				NR	72	42
25	1.3*	1.3*	1.3*	.27	0.15	0.18	NR	57	54
26	.7*	.9*	.7		.12	.31	NR	54	49
27		.1*			.01	.05	NR	61	49
28	.2	.3*	.2			.05	NR	63	48
29							NR	68	41
30							NR	67	46
31									
Total	3.9	4.4	4.2	0.31	0.28	0.59		71.1	45.2

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
July 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
1							NR	78	47
2							NR	82	52
3	0.2*	0.1	0.4*				.29	85	55
4							.35	85	48
5							.35	72	51
6	.1	.1*	.1				NR	73	56
7							NR	71	54
8							.25	78	48
9							.12	79	49
10							.35	87	57
11							.46	95	62
12							.37	93	60
13							.44	89	60
14	.2*	.2	.2				NR	85	62
15	.7	1.2	.7	0.21	0.41	0.01	NR	85	55
16	.3*	.4*	.4*	.08	.04	.08	NR	78	49
17							NR	78	58
18		.1					NR	79	60
19	.3*	.5*		.08			.29	78	57
20	.6*	.7*	.5*	.12	.16	.04	NR	77	58
21							NR	84	56
22							.23	83	59
23	1.1*	.5*	.6*	.47	.08		NR	81	52
24							NR	84	55
25							.29	89	60
26							.68	88	56
27							.19	81	51
28							.32	85	55
29							.21	90	52
30							.54	90	60
31							.26	82	44
Total	3.5	3.8	2.9	0.96	0.69	0.13		82.7	54.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
August 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
	Inches								
1							.39	85	50
2							.57	92	60
3							.42	91	68
4							.57	91	55
5							.41	89	69
6							.74	83	51
7							.79	84	51
8							.24	87	53
9							.26	87	40
10							.29	96	52
11							.55	98	65
12	0.1						.34	89	60
13							.36	76	60
14							.26	90	47
15							.26	95	55
16							.38	95	65
17							.60	92	50
18							.43	81	52
19							.36	87	57
20							.36	95	64
21							.36	98	52
22							.48	97	67
23							.41	96	58
24							.50	95	57
25							.58	95	69
26							.50	93	60
27							.38	92	69
28							.48	95	58
29							.46	93	62
30							.31	78	58
31							.24	79	55
Total	0.1							90.1	57.7

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
September 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----			-----	-----°F-----	
1							.48	89	55
2							.53	95	59
3							.53	92	65
4							.41	90	49
5							.34	70	45
6							.31	79	34
7							.24	79	35
8							.46	80	50
9							.36	80	51
10							.34	81	50
11							.26	87	44
12							.31	88	59
13							.41	87	45
14							.46	84	52
15							.24	69	43
16							.24	71	36
17							.31	76	48
18							.36	82	53
19							.31	81	60
20							.36	85	46
21							.29	84	42
22							.26	70	40
23							.29	73	36
24							.29	72	42
25							.26	69	34
26							.34	69	36
27							.34	73	35
28							.38	79	43
29							.36	75	44
30							.34	72	50
31									
								79.4	46.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
October 1969.

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----			-----	-----°F-----	
1								66	44
2	0.1	0.1	0.1					72	40
3								66	40
4		.1	.1					44	33
5								50	30
6	.1							56	45
7								54	36
8								70	26
9		.2	.1					65	47
10								49	38
11	.1							39	24
12								29	25
13			.1					33	16
14								33	18
15								37	28
16								48	14
17								45	12
18								51	15
19	.1	.1						46	23
20								57	25
21								55	37
22								65	38
23								72	31
24								53	27
25								32	26
26								27	21
27								41	19
28	.1	.1	.1					45	22
29								41	28
30								47	32
31								48	19
Total	0.5	0.6	0.5					49.7	28.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
November 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----			-----				--- °F ---	
1	0.1							44	32
2								37	23
3								52	20
4								62	26
5								74	38
6								69	27
7								62	36
8								52	34
9								56	23
10	.1	0.1	0.1					51	30
11								42	27
12								43	32
13								33	15
14								35	1
15		.1	.1					54	28
16								47	28
17								32	11
18								34	10
19								46	21
20								48	27
21								52	26
22								44	15
23								54	25
24								48	23
25								48	12
26								35	11
27								48	10
28								45	25
29								48	20
30								54	23
31									
Total	0.2	0.2	0.2					48.3	22.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
December 1969

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----			-----	-----°F-----	
1								56	20
2								51	12
3								47	11
4								46	24
5								39	22
6								32	14
7								27	7
8	0.1							14	8
9								11	1
10								25	0
11								30	9
12								42	13
13								43	25
14								50	22
15								46	23
16								40	11
17								36	19
18								31	10
19								28	13
20								32	18
21								33	15
22	.2	0.2	0.2					36	26
23								37	25
24								37	17
25								32	10
26	.1	.1	.1					29	9
27								24	10
28								18	8
29								25	-5
30								27	10
31	.1	.1	.1					27	12
	0.5	0.4	0.4					33.9	13.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
January 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----			-----				-- °F --	
1								26	6
2	0.1	0.1	0.1					20	2
3								23	13
4								20	-5
5	.1	.1	.1					2	-17
6								2	-8
7	.1	.1	.1					-1	-15
8								3	-32
9								30	-14
10	.1	.2	.1					45	22
11								31	1
12								21	-7
13								28	-5
14								49	8
15								38	-2
16								0	-14
17								-7	-20
18	.1	.1	.1					7	-22
19	.1	.1						19	-17
20								11	0
21								37	4
22								38	30
23								47	12
24	.1	.1	.1					44	27
25								39	30
26								35	28
27	.1		.2					46	19
28								35	15
29								27	9
30								34	17
31								40	20
	0.8	0.8	0.8					25.5	2.7

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
February 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				-----°F-----	
	Inches								
1								38	-3
2								15	-8
3	0.1	0.1	0.1					41	-1
4								35	20
5								39	18
6								40	11
7								37	21
8								36	10
9								48	16
10								41	22
11								35	18
12								26	14
13								17	6
14	.1	.1	.1					26	6
15								37	6
16								52	21
17	.1	.1	.1					48	26
18								28	2
19	.1	.1						27	12
20								41	16
21								49	17
22								45	16
23								46	31
24								35	22
25								45	29
26								42	33
27								34	20
28								28	14
29									
30									
31									
	0.4	0.4	0.3					36.8	14.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1									
2									
3									
4	0.1	0.1							
5									
6									
7									
8									
9									
10	.1	.1	0.1						
11									
12									
13									
14									
15									
16									
17									
18			.1						
19									
20									
21									
22									
23									
24	.1	.1	.2						
25									
26									
27									
28									
29	.1	.1	.1						
30									
31									
Total	0.4	0.4	0.5						

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1.--Daily rainfall, runoff, pan evaporation, and temperature,  
April 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	-----			-----				--°F--	
	Inches								
1								46	13
2	0.1	0.1						40	29
3								40	15
4								57	22
5								58	42
6								73	31
7								71	43
8								49	29
9								60	23
10								62	44
11	.3	.3	0.3					56	32
12			.1					38	29
13	.1		.1					36	23
14								31	25
15	.1	.1	.1					34	29
16								31	26
17								36	20
18	.1	.1						35	28
19	.1	.1	.2					32	25
20					0.04			35	29
21		.1		0.15	.02	0.10		41	28
22		.1		.28				43	17
23								50	30
24								60	30
25	.1		.1					60	29
26								55	33
27								47	33
28	.2	.2	.2					41	32
29	.1	.1						37	30
30								45	23
31									
Total	1.2	1.2	1.1	0.43	0.06	0.10		46.6	28.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1 . Daily rainfall, runoff, pan evaporation, and temperature, May 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1			0.1					55	20
2								66	29
3								65	33
4								75	39
5								74	39
6								82	52
7	2.5*	3.0*	2.1*	1.25	1.37	0.75		79	53
8	0.9	0.8*	.7*		.15	.25		67	37
9	.1		.1					41	35
10	.1	.1						58	33
11								59	49
12	.2*	.1*	.2*					64	39
13								53	33
14			.1					55	40
15								63	30
16								75	40
17								86	45
18								84	45
19	.1*	.1	.1*					67	45
20								69	47
21	.7*	.8*	.7*	.08				68	48
22								62	47
23								71	49
24	.1*	.1*	.3					66	50
25								66	45
26								79	39
27	.3*	.5*	.2*					78	50
28								77	53
29								67	42
30		.1*	.1*					68	53
31	.1*	.2*	.1*					65	47
Total	4.8	5.8	4.8	1.33	1.52	1.00		67.9	42.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature, June 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.34	70	36
2							.31	74	34
3							.38	77	42
4							.38	79	51
5							.43	82	48
6							.38	86	51
7							.41	87	50
8							.41	82	51
9							.58	86	51
10							.43	86	54
11							.29	67	38
12	0.8*	0.9*	0.8*				NR	65	47
13	.1		.1				NR	71	46
14							.17	78	48
15	.2*	.1*	.1*				.17	76	44
16							.34	75	51
17	.1	.1	.1				NR	74	56
18		.1*					.22	74	40
19	.2*	.2*	.1*				NR	75	52
20							.36	71	42
21							.34	85	44
22							.36	90	44
23							.48	90	61
24							.48	87	50
25							.46	87	57
26							.46	92	50
27			.1				.60	100	60
28							.65	95	57
29							.53	86	61
30							.50	86	57
31									
Total	1.4	1.4	1.3					81.1	49.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature, July 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.41	79	47
2							.48	80	45
3							.60	78	43
4							.38	85	41
5							.48	95	63
6							.48	94	55
7							.50	89	59
8							.50	92	63
9							.43	94	57
10							.58	93	65
11							.53	90	67
12							.46	92	57
13							.58	92	64
14							.43	80	54
15							.36	85	42
16							.58	89	53
17							.43	93	60
18							.65	93	53
19							.38	85	58
20							.53	85	56
21							.60	97	64
22	0.5*	0.3*	0.8*	0.01			.43	90	57
23	.6*	.4*	.6*	.06			NR	71	55
24							.NR	85	45
25							.31	91	61
26							.38	92	60
27							.29	88	63
28							.31	87	61
29							.46	90	60
30							.41	89	56
31							.38	80	47
Total	1.1	0.7	1.4	0.07				87.8	55.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
August 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.38	88	55
2	0.2*	0.4*	0.2*				.29	87	60
3	.3*	.2*	.3*	0.06			NR	77	51
4							.36	88	52
5	.1*	.1*	.1*				.29	92	64
6							.38	93	65
7							.48	93	58
8	.1*	.2*	.2*				.55	95	63
9							.38	95	60
10							.41	95	49
11							.41	94	58
12							.46	95	51
13							.50	96	71
14							.58	95	59
15							.38	83	59
16							.48	93	49
17							.50	96	63
18							.74	93	48
19							.36	81	48
20							.46	89	51
21							.70	87	48
22							.31	88	49
23							.46	94	56
24							.58	92	56
25							.50	94	48
26							.43	96	67
27							.41	87	55
28							.62	83	59
29							.58	84	59
30							.31	77	41
31							.36	93	58
Total	0.7	0.9	0.8	0.06				90.1	55.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.26	90	62
2							.43	85	50
3							.29	85	48
4							.43	92	55
5							.43	87	57
6	0.1	0.1	0.1*				.26	81	53
7	.2	.1	.1				NR	78	52
8	.2*	.2*	.2*				.34	79	52
9	.1*	.1*					NR	75	41
10							NR	67	34
11							.29	64	43
12							.07	44	30
13		.1	.2*				.02	37	23
14	.1*	.2*	.1*				NR	41	33
15							NR	59	31
16			.1				NR	68	33
17							.26	71	48
18							.22	87	44
19							.31	84	47
20							.29	68	45
21							.22	58	40
22							.26	67	35
23	.4*	.4*	.4*				NR	69	42
24							NR	58	40
25							NR	52	29
26							.14	60	34
27							.22	70	32
28							.19	77	35
29							.22	79	37
30							.29	78	42
31									
Total	1.1	1.2	1.2					70.3	41.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
October 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								76	34
2								76	33
3								73	33
4								82	47
5								85	41
6								75	32
7								42	23
8								37	16
9								46	24
10								43	25
11								52	24
12	0.1	0.1	0.1					59	23
13	.1	.1	.1					40	25
14								40	27
15								56	20
16								66	28
17								67	25
18								66	34
19								63	35
20								66	29
21								65	39
22								60	24
23								58	28
24								59	32
25								50	28
26								47	19
27	.2	.2	.1					35	13
28	.2	.3						36	20
29	.1	.3	.1					37	26
30								35	26
31								34	12
Total	0.7	1.0	0.4					55.7	27.3

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
November 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							----- °F -----	
1								31	11
2			0.1					30	25
3								29	25
4								41	15
5								45	26
6				0.01				45	29
7	0.3	0.3	.2	.09				48	23
8		.1	.1	.04				44	33
9								53	26
10	.2	.2	.3	.06				42	27
11	.1	.1		.05				40	23
12		.1						41	19
13	.1	.1	.1	.07	0.01			38	26
14				.04				35	25
15								46	25
16			.1					51	30
17								46	36
18								41	27
19	.1	.1	.1					36	28
20	.1	.1						35	27
21			.1					31	1
22	.1	.1						8	-7
23		.1						17	-8
24								48	15
25	.1	.1	.1	.36	.02			51	14
26								33	11
27								28	12
28								37	11
29								53	21
30				.02				54	36
31									
Total	1.1	1.4	1.2	0.74	0.03			39.3	20.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
December 1970

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1		0.1	0.1					37	19
2								45	16
3		.1						40	8
4								39	20
5								26	0
6								43	16
7								54	30
8	0.1							47	34
9	.1	.1	.1					35	19
10								23	8
11								34	12
12								30	10
13								34	14
14								38	11
15								35	12
16								37	26
17								31	4
18								5	-2
19								6	-13
20								23	-11
21								20	-3
22								21	-3
23								19	-11
24								20	-1
25								30	-2
26								32	3
27								24	5
28								37	15
29								42	10
30								42	28
31									
Total	0.3	0.3	0.2					31.6	9.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
January 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								33	10
2								19	-2
3								8	-9
4								5	-9
5								2	-10
6								11	-17
7	0.1	0.1	0.1					25	-2
8	.1	.1	.1					33	25
9		.1	.1					29	-1
10		.1	.1					7	-11
11								-2	-22
12	.1	.1						-6	-11
13		.1						-3	-11
14								-2	-19
15		.1	.1					33	-20
16	.1							42	30
17	.1	.1	.1					38	15
18								24	10
19								48	15
20	.2	.1	.2					45	31
21								33	17
22								28	5
23								36	18
24								39	12
25			.1					29	6
26	.1	.1						14	6
27			.1					38	12
28								40	19
29								41	10
30	.1	.1	.1					20	-8
31	.1	.1	.1					11	-8
Total	1.0	1.2	1.2					23.0	2.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
February 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								19	-13
2								23	9
3	0.1	0.1	0.1					10	2
4								24	-16
5			.1					25	-6
6								3	-15
7								5	-31
8	.1		.1					13	-1
9	.1	.1	.1					35	0
10								40	27
11								37	26
12								42	12
13								43	34
14								45	32
15	.1	.1	.1					50	31
16								41	25
17								45	23
18								37	24
19								29	24
20								28	8
21								27	0
22								33	5
23								35	7
24								44	17
25								43	30
26	.1							32	20
27								24	8
28								22	3
29									
30									
31									
	0.5	0.3	0.5					30.5	10.2

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								23	10
2	0.1							29	-9
3								42	10
4								41	18
5								31	5
6			0.1					25	8
7								27	0
8								43	12
9								38	14
10								43	20
11								43	32
12								55	23
13								53	31
14	.1		.1					35	29
15								37	22
16								37	20
17								35	17
18								35	22
19								35	11
20								47	22
21								43	15
22								25	-3
23								26	13
24								37	19
25								37	24
26								48	25
27								48	34
28								50	35
29								56	23
30								67	33
31								63	22
Total	0.2		0.2					40.5	18.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
April 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								36	20
2								47	14
3								46	28
4								43	31
5								51	21
6								69	36
7								76	30
8	0.1	0.1	0.1					70	35
9								68	26
10								78	39
11								54	25
12								52	31
13								58	24
14								72	30
15								72	38
16								68	34
17	.2	.3	.2					60	38
18	.6	.5	.4	0.05	0.04			57	41
19	.1	.1	.3	.09	.03			45	36
20	.5	.5	.4	.14	.14	0.08		57	38
21	.1	.1	.1	.05	.04	.10		54	41
22								50	39
23								65	39
24								63	35
25								48	34
26	.2	.2	.2					42	32
27								40	28
28								54	23
29								63	37
30								62	29
31									
Total	1.8	1.8	1.7	0.33	0.25	0.18		57.3	31.7

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
May 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								61	37
2								69	37
3								73	43
4								71	40
5								68	43
6								67	33
7								65	38
8								74	40
9		0.2*	0.1					72	49
10								65	36
11								65	28
12								75	43
13								82	45
14	0.1*		.1*				.36	79	44
15							.48	68	30
16							.38	74	49
17							NR	59	31
18							.02	54	30
19							.12	57	28
20							.29	65	33
21	.2*	.2*	.1*				.26	69	45
22	1.1*	1.1*	1.2*	0.32	0.13	0.04	NR	70	44
23	.1	.1*	.1*				NR	67	39
24							NR	64	33
25							NR	68	37
26							NR	70	45
27							.19	75	44
28							.34	80	52
29	.4*	.5*	.5*	.07			NR	71	47
30	.2*	.4*	.3*	.10	.03		NR	53	43
31	.4*	.4*	.5*	.13	.10	.14	NR	57	45
Total	2.5	2.9	2.9	0.62	0.26	0.18		68.0	39.7

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
June 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1						0.02	NR	62	45
2	0.1*	0.4*	0.2*	0.04	0.22		NR	72	46
3	.2*	.4*	.1*		.06		NR	78	49
4	.8*	.4*	.9*	.47	.28	.65	NR	69	51
5							NR	72	48
6		.1	.1				NR	71	41
7	.5*	.5*	.5*	.12	.18	.07	NR	69	45
8							NR	69	48
9	.1						NR	75	53
10	.3*	.4*	.4*	.13			.17	81	50
11			.1				.12	74	50
12							.29	76	47
13			.1				.43	81	51
14							.38	84	57
15							.31	75	52
16	2.1*	2.2*	2.1*	.91	.76	.47	.19	79	50
17			.1*	.02	.07	.14	.19	78	50
18							.36	82	51
19	.1	.1*					.34	82	57
20							.19	80	51
21							.46	80	60
22							.10	85	52
23							.50	88	60
24							.34	84	55
25							.43	91	60
26							.50	88	57
27							.26	68	56
28							.19	71	42
29							.34	71	54
30							.41	73	41
31									
Total	4.2	4.3	4.6	1.69	1.57	1.35		76.9	51.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
July 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.48	83	41
2							.53	89	59
3							.34	89	54
4							.34	76	38
5							.31	85	50
6							.46	93	55
7							.53	88	44
8							.41	74	37
9							.31	86	56
10							.65	90	59
11	0.1*	0.1*	0.1*				.41	90	62
12							.58	82	53
13							.38	82	39
14							.55	78	43
15							.48	86	48
16			.1				.43	95	49
17							.55	93	62
18							.48	89	46
19							.36	81	45
20							.43	89	50
21							.50	89	58
22							.50	85	55
23							.41	89	49
24							.55	88	62
25							.24	72	51
26							.36	73	39
27							.48	74	45
28							.22	68	35
29							.10	70	35
30							.34	84	43
31							.46	83	45
Total	0.1	0.1	0.2					83.6	48.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
August 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.46	82	45
2							.41	81	50
3							.55	85	55
4							.46	88	55
5							.67	95	62
6							.62	96	64
7							.55	97	63
8							.43	93	60
9							.65	93	57
10							.48	91	44
11							.41	92	52
12							.53	95	57
13		0.1					.46	94	57
14							.58	94	62
15							.70	98	70
16							.48	95	61
17							.50	95	57
18	0.1*						.29	90	61
19							.48	85	46
20							.46	95	63
21							.55	95	65
22							.50	100	53
23							.67	98	64
24							.34	82	37
25							.38	88	47
26							.48	91	60
27							.53	95	65
28							.46	95	62
29	.3*	.3*	0.4*				.46	91	60
30							NR	76	54
31							NR	82	56
Total	0.4	0.4	0.4					91.2	56.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1							.34	83	57
2							.55	97	61
3							.41	96	52
4	2.5*	2.3*	2.7*	0.44	0.36	0.33	NR	66	46
5	0.4*	0.4*	0.3*	.21	.29	.46	NR	66	50
6							NR	84	42
7							NR	82	55
8							NR	70	40
9							NR	82	46
10							.29	83	40
11							.46	90	58
12							.38	89	35
13							.46	77	45
14							.34	76	37
15							.24	56	29
16							.10	54	31
17	.1	.1*					.14	46	32
18							.22	54	26
19							.02	61	31
20	.1*	.4*	.1*				NR	54	39
21							.26	49	27
22							.36	57	31
23							.31	69	32
24							.17	78	45
25							.02	76	45
26							.14	69	39
27	.4*	.2	.4*				.19	56	38
28							NR	58	39
29							NR	70	35
30							NR	69	44
31									
Total	3.5	3.4	3.5	0.65	0.65	0.79		70.6	40.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
October 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	1.1	1.1	1.2*	0.27	0.21	0.12		56	43
2	1.0	1.1	2.6*	.76	1.22	1.63		46	31
3				.03	.22	.23		52	32
4								65	34
5								68	38
6								74	40
7								73	45
8								52	33
9								69	30
10								68	39
11								65	34
12								66	52
13								73	28
14								70	37
15	0.2	0.2	0.2					45	32
16	.1	.1	.1					36	31
17	.2	.1	.1					45	34
18	.4	.6	.6	.52	.58	.47		43	34
19					.02	.02		55	30
20								63	33
21								63	35
22								57	25
23								65	40
24								64	29
25								63	30
26								63	38
27								57	26
28	.1							28	17
29	.1	.1	.1					24	5
30								26	12
31		.1	.1					39	14
Total	3.2	3.4	5.0	1.58	2.25	2.47		55.9	31.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
November 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								44	15
2								42	30
3								40	21
4								60	32
5								54	13
6								20	9
7								42	2
8								47	26
9								59	22
10								68	27
11								62	28
12								64	28
13	0.6	0.4	0.4		0.02	0.01		55	36
14			.1		.04	.09		49	35
15								45	23
16	.2	.3	.3					34	28
17								30	21
18								22	17
19	.1			.28	.18	.36		41	22
20					.01	.02		44	38
21								44	23
22								45	31
23								38	21
24								42	18
25	.1	.1	.1					46	28
26	.1	.1	.1					43	14
27								35	18
28								34	20
29								32	20
30	.1	.1	.1					31	19
31									
Total	1.2	1.0	1.1	0.28	0.25	0.48		43.7	22.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
December 1971

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								35	7
2								36	19
3								31	12
4								30	15
5								33	12
6								30	14
7	0.1	0.1	0.1					24	1
8								19	-17
9								43	5
10								33	11
11								15	-10
12								25	-11
13								21	2
14								27	-4
15								30	15
16								26	-17
17								40	10
18								42	29
19								32	19
20	.1		.1					31	16
21								29	9
22								44	11
23								39	8
24								41	4
25								35	-8
26								-3	-10
27			.1					15	-5
28								29	-8
29								28	2
30								24	8
31								34	15
	0.2	0.1	0.3					29.6	5.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
January 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								30	7
2								26	4
3								6	-10
4								17	-12
5	0.1	0.2	0.1					25	10
6								32	18
7								40	19
8			.1					39	23
9								40	23
10	.1							29	14
11	.3	.2	.2					31	6
12	.1							34	5
13								10	-28
14								-15	-32
15	.2		.2					20	-18
16								42	20
17								45	36
18								43	-3
19								24	-5
20								27	-7
21			.1					46	0
22								35	13
23		.1						29	7
24	.1		.1					10	-12
25								-9	-23
26								-18	-28
27								-16	-25
28								17	-29
29	.1	.2	.1					19	1
30		.2	.2					27	9
31								24	-2
Total	1.0	0.9	1.1					22.9	-.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
February 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								17	-5
2		0.1	0.1					7	-14
3								12	-5
4								13	-14
5								15	0
6								18	-10
7	0.1		.1					35	5
8								30	-2
9		.1	.1					23	6
10								36	5
11								43	8
12			.1					40	25
13								45	30
14								34	14
15		.1	.1					35	7
16								46	28
17								43	18
18								42	12
19								42	23
20								50	31
21								42	0
22								40	11
23								41	10
24								22	7
25								27	5
26								28	6
27								46	19
28	.1	.1	.1					50	34
29								38	11
30									
31									
	0.3	0.4	0.6					33.1	9.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								14	4
2								32	3
3	0.3	0.1	0.2					38	3
4								28	-5
5								52	6
6								57	27
7								36	12
8								40	14
9								58	26
10								69	38
11								56	30
12								55	32
13								64	32
14								62	31
15								53	26
16								58	24
17								57	41
18								67	30
19								61	35
20								55	36
21								56	25
22								57	33
23								58	30
24	.2	.3	.2					57	30
25	.1		.1					52	25
26	.1	.2	.2					49	26
27								33	19
28								28	10
29								31	6
30								34	4
31								40	9
Total	0.7	0.6	0.7					48.6	21.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
April 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								57	22
2								54	28
3								30	16
4								53	10
5								69	35
6	0.1	0.1	0.1					67	46
7			.1					63	38
8								57	23
9								56	33
10								53	23
11	.1	.2	.1					65	38
12	.1	.1	.2					65	40
13								54	34
14								57	28
15								62	24
16								62	30
17								62	31
18								43	29
19			.1					43	30
20								54	32
21								61	26
22	.5	.4	.4					60	35
23								49	23
24								55	22
25								59	35
26								59	39
27								53	29
28								47	36
29	.1							57	31
30	.2	.2	.2					52	32
31									
Total	1.1	1.0	1.2					55.9	29.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
May 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1	0.2	0.2	0.1	0.22	0.19	0.03		38	29
2			.1	.15	.14	.06		48	32
3								54	26
4	.5	.5	.5	.19	.06	.10		65	33
5					.06	.04		65	41
6								55	31
7								47	36
8	.3	.3	.3		.03			45	32
9	.1	.1	.2	.13	.04	.10		45	38
10	.4	.5	.4	.13	.28	.38		51	40
11	.3	.3	.3	.28	.25	.34		51	40
12	.1							59	39
13								66	40
14								75	40
15								79	47
16								85	50
17								88	54
18							.02	81	51
19	.1*	.3*	.2*				.19	78	50
20							.12	74	52
21							.46	84	58
22	.5*	.4*	.3	.02			NR	70	50
23							.34	68	43
24	.1	.1					.34	73	38
25	.1*	.2*	.2*				.22	73	48
26							.14	69	43
27	.1*	.1*	.1*				.17	66	45
28	.7*	.7*	.7*	.34	.03		.02	58	46
29							NR	65	42
30							NR	75	43
31							.12	80	40
Total	3.5	3.7	3.4	1.46	1.08	1.05		65.5	41.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
June 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	- - - - - Inches - - - - -							- - °F - -	
1							.31	82	50
2							.48	83	52
3							.46	85	45
4							.40	77	58
5							.24	77	42
6							.43	79	52
7							.36	88	63
8							.30	88	64
9	0.2*	0.4*	0.1*				.34	78	60
10			.1				NR	76	56
11							.40	83	60
12							.36	83	54
13	.2*	.1*	.1*				.34	78	48
14							NR	69	41
15	.1*	.2*	.1*				NR	76	44
16							NR	69	54
17							.24	80	57
18	.1*	.1*	.1*				.43	81	54
19		.1	.1*				NR	65	42
20							.22	65	32
21	.4*	.5*	.5*	0.02			NR	67	44
22							NR	71	47
23	.1*	.1	.1*				.38	82	54
24							.24	83	50
25	.4*	.3*	.5*	.02			NR	73	57
26	.7*	.5*	.5*	.32	0.01		NR	73	50
27	.1	.1*	.1*	.01			NR	72	48
28							.30	74	55
29			.1				.46	83	53
30							.40	84	52
31									
Total	2.3	2.4	2.3	0.37	0.01			77.5	51.3

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
July 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.1	0.1					.40	83	51
2	.1*	.1*	0.1*				NR	68	47
3							NR	63	33
4							.26	69	34
5							.24	79	44
6							.34	79	47
7							.31	83	56
8							.43	86	43
9							.43	90	64
10							.43	85	55
11							NR	85	59
12							.24	82	48
13							.53	89	62
14	.4*	.2*	.2*				NR	72	53
15							.26	73	44
16							.31	77	43
17							.36	73	45
18	.4*	.4*	.8*	0.04			.36	81	44
19							NR	78	45
20							NR	61	38
21		.1*	.1				NR	67	53
22	1.4*	1.5*	1.4*	.62	0.24	0.56	NR	74	49
23							NR	81	49
24							.46	83	53
25							.31	85	61
26	.2*	.2*	.1*				.40	87	50
27							NR	85	58
28			.1				.31	86	57
29							.43	89	56
30							.30	92	54
31							.34	86	53
Total	2.6	2.6	2.7	0.66	0.24	0.56		79.7	49.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
August 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.1*	0.1*					.19	83	55
2	.7*	.6*	0.6*	0.10			NR	82	54
3	.6*	.8*	.7*	.37	0.20	0.09	NR	60	44
4							NR	80	42
5							NR	85	54
6							NR	82	45
7							.40	80	60
8							.30	75	42
9							.31	88	49
10							.43	98	64
11							.46	92	55
12	.2	.1*	.1*				.34	99	66
13							.36	95	62
14							.38	93	61
15	.1						.22	91	62
16							.26	89	59
17	.1	.1*	.1				.24	89	59
18							.26	85	55
19	.3	.4*	.3*				NR	83	60
20	.1		.1*				.22	77	59
21	.1	.1*	.1				NR	74	58
22							.22	75	45
23							.31	73	44
24							.22	74	39
25							.24	79	42
26							.26	82	46
27							.26	86	47
28							.46	90	52
29							.31	92	56
30							.50	88	54
31	.1	.1*	.1				.17	80	49
	2.4	2.2	2.1	0.47	0.20	0.09		83.8	52.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1							.12	69	32
2							.19	72	43
3							.31	74	39
4							.22	73	36
5							.31	78	44
6							.40	77	56
7							.12	66	40
8							.24	80	42
9							.43	90	43
10							.40	79	46
11							.24	71	45
12							.24	73	48
13	0.1	0.1*	0.1*				.12	69	46
14							.30	76	38
15							.31	77	34
16							.38	75	52
17							.26	77	46
18							.34	89	50
19							.46	85	62
20							.40	75	41
21							.30	73	25
22							.30	73	52
23	.1	.1	.1*				.17	69	44
24							.22	65	28
25	.3	.4*	.3*				.05	48	29
26								52	18
27								58	37
28								51	21
29								54	25
30								69	39
31									
Total	0.5	0.6	0.5					71.2	40.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
October 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								75	36
2								71	36
3								73	33
4								74	40
5	0.5	0.5	0.6	0.06				68	31
6								59	21
7								69	38
8								67	39
9								74	42
10								73	39
11								43	27
12								67	26
13								67	33
14	.1							58	27
15								56	30
16								59	30
17								59	24
18								41	22
19								59	25
20								57	30
21								60	24
22								56	32
23								54	32
24								53	34
25								64	30
26	.2	.2	.2					62	39
27								47	24
28								39	19
29								37	23
30								24	13
31								43	5
Total	0.8	0.7	0.8	0.06				58.3	29.2

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
November 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								59	18
2								52	18
3								56	31
4								58	28
5	0.1	0.1	0.1					52	30
6								45	32
7								49	22
8								46	22
9								48	20
10								49	24
11								46	23
12								34	20
13								29	19
14								33	16
15								42	19
16								39	20
17								26	20
18								29	22
19								30	26
20								30	23
21								33	21
22								43	20
23								54	22
24								41	18
25	.1		.1					35	17
26								39	22
27								39	22
28								28	10
29								36	7
30								46	20
31									
Total	0.2	0.1	0.2					41.2	21.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
December 1972

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								45	23
2								35	-2
3								0	-10
4	0.1	0.1						-4	-9
5			0.1					-6	-23
6		.1						1	-25
7								-4	-26
8		.1	.1					-5	-28
9								0	-28
10								8	-14
11								17	-5
12								17	-7
13								14	-4
14								23	-2
15								25	-10
16								32	-3
17								43	23
18								44	25
19								47	23
20	.1	.1	.1					44	31
21								48	27
22	.1	.1	.2					55	31
23								43	8
24								43	23
25								39	22
26		.1						50	23
27								49	24
28								40	30
29								31	11
30								16	2
31								19	9
	0.3	0.6	0.5					26.1	4.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
January 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								24	5
2								47	18
3								33	-11
4								-2	-13
5								13	-14
6								8	-20
7								4	-15
8								-1	-23
9		0.1	0.1					3	-18
10								12	-16
11								32	0
12								40	22
13								46	28
14								48	33
15								59	35
16								55	35
17								47	30
18								44	27
19								35	25
20	0.1	.1	.1					34	19
21								43	12
22								35	10
23								48	22
24								55	35
25								52	26
26								39	22
27								24	5
28								33	-1
29								49	15
30								43	20
31								42	17
	0.1	0.2	0.2					33.7	10.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
February 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								39	20
2								46	16
3								44	27
4								45	20
5								38	17
6								19	-5
7								13	-7
8								25	-4
9								37	9
10								41	5
11								40	18
12	0.1	0.1	0.1					33	17
13								24	3
14								27	-7
15								23	-1
16		.1						41	4
17								45	24
18								38	29
19								38	22
20								34	26
21								44	17
22								51	26
23								52	29
24								48	26
25								39	24
26								50	27
27								52	28
28								59	28
29									
30									
31									
Total	0.1	0.2	0.1					38.8	15.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								61	29
2								60	31
3								52	20
4								48	27
5	0.3	0.2	0.2					41	25
6								42	27
7								47	17
8								46	20
9								50	24
10								56	25
11								56	34
12								51	33
13	.2	.2	.2					51	25
14								45	24
15								45	19
16								53	18
17								54	30
18								44	24
19								50	19
20								52	26
21								58	35
22	.1	.1	.1					55	33
23	.1	.1	.1					35	30
24	.1	.1	.1					40	30
25								51	18
26								62	33
27								61	24
28								40	14
29								46	15
30								47	26
31								55	24
Total	0.8	0.7	0.7					50.1	25.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
April 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								55	29
2								48	23
3	0.1							48	19
4								59	17
5								61	30
6								59	29
7								29	19
8		0.1	0.1					31	17
9								36	5
10								49	17
11								61	23
12								68	29
13								70	32
14								65	33
15								44	25
16								61	19
17								63	32
18	.1	.2	.2					59	36
19	1.0	1.0	1.0	0.48	0.13	0.09		46	36
20	.4	.4	.3	.31	.20	.11		45	39
21				.04	.15	.12		43	25
22								58	29
23	.2	.1	.1					62	39
24								57	38
25		.1						50	33
26								51	29
27								60	33
28								63	30
29	.1		.1					52	33
30								51	36
31									
Total	1.9	1.9	1.8	0.83	0.48	0.32		53.5	27.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
May 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.24	51	33
2							.22	53	25
3							.26	68	29
4							.24	70	41
5							.24	67	40
6							.26	66	40
7							.34	65	40
8							.22	70	36
9		0.1					.38	64	36
10							.36	60	30
11							.36	65	34
12							.22	59	22
13							.31	64	26
14							.26	68	27
15							NR	76	40
16							.22	77	35
17							NR	80	44
18							.34	80	45
19							.05	80	38
20							0	80	44
21							0	61	47
22							0	70	30
23							0	71	38
24							0	66	42
25	0.5*	.6	0.6*	0.01			NR	65	40
26	1.0	.7	.9	.41	0.14	0.06	NR	50	41
27	.7	.4	.8	.63	.27	.72	NR	60	40
28			.1				NR	65	45
29							NR	60	40
30							.22	71	35
31							.31	84	46
Total	2.2	1.8	2.4	1.05	0.41	0.78		67.3	37.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
June 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1							.38	84	53
2	1.0	1.2	0.8	0.41	0.30	0.12	NR	75	49
3		.1	.1	.01			NR	53	40
4							NR	65	43
5							NR	70	40
6							.36	79	50
7							.29	84	51
8			.1				.41	80	44
9							.43	82	58
10							.34	76	53
11							.31	69	47
12							.34	76	40
13							.41	89	58
14		.1	.1				.29	90	63
15	.1*		.1				.14	69	54
16	.1*	.1*	.3*				NR	68	47
17	.4*	.1*	.2*				NR	72	43
18	2.1*	1.8*	1.9*	1.12	0.86	0.63	NR	57	34
19	.8*	.8*	.6*	.48	.48	.44	NR	57	43
20	.1		.1	.01			NR	68	44
21							NR	74	43
22							NR	83	46
23							NR	86	56
24							.29	83	58
25							.55	80	51
26							.55	81	62
27							.34	81	48
28							.38	82	53
29	.2*	.3*	.3*				NR	83	62
30	.2*	.1*	.1*				NR	80	52
31									
Total	5.0	4.6	4.7	2.03	1.64	1.19		75.9	49.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
July 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.31	80	49
2							.22	79	37
3							.17	86	48
4							.34	90	59
5							.24	89	64
6							.43	93	69
7							.34	92	54
8							.29	90	54
9							.50	91	53
10							.43	96	50
11							.53	92	60
12							.38	92	57
13							.31	88	40
14							.26	78	41
15							.36	89	52
16							.41	86	57
17							.48	88	55
18							.38	83	43
19	0.1*	0.4*	0.1*				.12	72	59
20							.31	71	57
21							.24	70	55
22	.2*	.5*	.2*				NR	74	58
23			.3				NR	70	52
24							NR	80	55
25							NR	82	48
26							NR	82	50
27							NR	83	53
28	.1*	.1					NR	83	56
29			.1				NR	83	54
30							NR	82	45
31							NR	87	50
Total	0.4	1.0	0.7					83.9	52.7

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
August 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.38	89	53
2							.46	93	61
3							.41	94	61
4							.29	93	63
5							.26		58
6			0.1				.46	91	55
7	0.3*	0.4*	.3*				NR	77	46
8							NR	77	54
9							.17	78	42
10	.1*	.1	.1*				.24	89	49
11							.22	88	55
12							.23	78	48
13							.24	86	47
14							.41	87	58
15							.43	94	49
16							.41	98	56
17							.55	98	58
18							.62	91	61
19	.1						.43	89	50
20	.1*		.1*				.26	95	65
21							.36	93	64
22							.10	83	62
23	1.0*	.9*	.7*	0.05	0.01		NR	78	54
24							NR	83	62
25							NR	86	46
26							.29	86	47
27	.1		.1				.38	97	62
28							.41	87	49
29							NR	86	48
30							.46	94	55
31							.48	91	52
Total	1.7	1.4	1.4	0.05	0.01			88.3	54.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.4*	0.2*	0.4*	0.01			NR	84	49
2	.8*	.9*	.8*	.24	0.05	0.01	NR	54	46
3	.4*	.4*	.4*	.13	.10	.08	NR	52	47
4							NR	68	43
5							NR	71	44
6							NR	81	46
7							.12	83	59
8			.1				.17	80	50
9							.22	79	47
10							.29	76	49
11							.22	73	46
12							.31	78	46
13							.34	76	46
14	.2*	.2					NR	55	31
15	1.0*	1.0*	1.0*	.34	.13	.05	NR	43	31
16			.1				NR	50	34
17							NR	60	26
18							NR	71	32
19		.1					NR	69	43
20							NR	70	45
21							NR	70	45
22							.12	70	42
23	.6*	.3*	.6*	.2			.05	68	41
24							NR	63	45
25							NR	61	31
26							.07	60	30
27							.10	72	38
28							.19	72	36
29							.26	75	39
30							.19	80	41
31									
Total	3.4	3.1	3.4	0.92	0.28	0.14		68.7	41.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
October 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								81	42
2								71	42
3								53	31
4								64	24
5								70	32
6								75	29
7								80	45
8								75	38
9	0.7	0.8	0.9	0.26	0.08	0.04		59	33
10	.4	.3	.3	.40	.29	.37		41	30
11				.36	.34	.31		41	31
12					.01	.05		52	28
13								63	32
14								71	41
15	.5	.5	.5	.12	.05	.06		53	39
16				.05	.08	.10		61	34
17								63	33
18								76	39
19								71	37
20								74	45
21								73	40
22								73	38
23								74	40
24								68	48
25								57	31
26								49	30
27								50	19
28								62	28
29								53	33
30	.1	.1	.1					51	24
31								47	29
Total	1.7	1.7	1.8	1.19	0.85	0.93		62.9	34.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1 . Daily rainfall, runoff, pan evaporation, and temperature,  
November 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								38	30
2								33	20
3								25	9
4								21	7
5								27	8
6								38	19
7		0.1						31	5
8								25	8
9								33	12
10			0.1					60	25
11								63	28
12								66	33
13								64	38
14	0.1		.1					44	27
15								49	23
16								46	23
17								44	29
18								40	25
19								28	15
20		.1	.1					23	10
21								36	8
22								40	20
23								38	13
24								30	10
25	.1							36	16
26								35	15
27								35	11
28								52	18
29								55	33
30								39	26
31									
Total	0.2	0.2	0.3					39.8	18.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
December 1973

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								59	30
2								58	25
3								37	14
4								36	19
5								22	3
6								41	2
7								47	29
8								45	30
9								34	14
10								50	14
11								52	26
12								46	31
13								38	16
14								31	14
15								25	8
16								45	10
17								45	31
18								33	5
19								23	-10
20								38	6
21								46	24
22								44	26
23								37	30
24								32	22
25								38	16
26								30	15
27								30	8
28								20	10
29								17	-1
30								11	-10
31								8	-15
								36.1	14.3

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
January 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							--- °F ---	
1								3	-21
2								12	-5
3								9	-7
4								11	-5
5								6	-17
6								9	-17
7								20	1
8								10	-15
9								4	-12
10								1	-19
11								4	-29
12								29	-15
13								49	18
14								45	15
15								52	39
16								62	42
17								57	30
18								53	18
19								51	30
20								46	25
21								28	17
22								33	10
23								38	22
24								44	23
25								49	32
26								41	16
27								39	18
28								43	25
29								48	31
30								47	-5
31								10	-9
								30.7	7.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
February 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								46	6
2								46	7
3								40	11
4								42	30
5								38	2
6								27	-2
7								25	10
8								34	10
9								47	11
10								46	18
11								50	28
12								50	29
13								47	20
14								50	17
15								50	30
16								53	20
17								46	31
18								41	18
19								48	25
20								47	22
21								37	12
22								45	18
23								42	12
24								37	11
25								52	14
26								52	26
27								54	29
28								49	12
29									
30									
31									
								44.3	17.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								62	38
2								54	34
3								51	24
4								40	20
5								53	33
6	0.1	0.1						52	11
7	.1		0.1					22	12
8								31	17
9								41	4
10								51	26
11								48	26
12								51	29
13	.1	.1						50	23
14			.1					48	19
15								35	10
16								41	14
17	.1	.1						64	28
18								43	18
19	.1	.1	.1					30	13
20								27	0
21								35	16
22	.1		.1					30	-2
23								11	-10
24								35	8
25								46	15
26								52	25
27								62	34
28	.1	.1						63	36
29	.1	.1	.1					58	34
30								58	31
31								57	32
Total	0.8	0.6	0.5					45.2	19.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
April 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								52	28
2								50	28
3								40	25
4								45	17
5								57	22
6								61	25
7	0.3	0.3	0.3					64	27
8								56	29
9								61	29
10	.1	.1	.1					60	35
11	.1	.1	.1					41	30
12	.1							36	30
13		.1						47	30
14	.1	.1	.1					45	27
15			.1					48	18
16								67	32
17								68	30
18								61	37
19								72	48
20	.5	.5	.4	0.03	0.01			71	39
21	.1	.1						51	35
22								62	25
23								63	43
24								79	48
25								78	52
26	.2	.2	.3	.01				77	54
27	.4	.4	.3	.09	.02			60	40
28	.1	.1	.1					55	31
29								59	29
30								65	33
31									
Total	2.0	2.0	1.8	0.13	0.03			58.4	32.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
May 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								74	45
2	0.1*							74	35
3								58	28
4								63	34
5								70	35
6								73	42
7								64	42
8								69	42
9		0.1*	0.1				.02	70	32
10							.02	68	39
11							.05	55	35
12								63	27
13	.5*	.5*	.5*	0.01			.07	55	32
14				.01			NR	50	29
15		.1	.1				NR	56	31
16							NR	57	31
17	.1*	.1					NR	55	36
18							NR	61	40
19		.9*	.6				NR	60	50
20	.4*	.1*	.1*	.05	0.15		NR	57	44
21							NR	50	40
22							.05	52	38
23							.02	60	31
24							.05	71	39
25	.1*	.1	.1				NR	71	49
26			.1				NR	76	49
27	.2*	.2	.2				NR	74	53
28	.1	.1					NR	69	47
29	.4*	.3	.5	.05			NR	55	35
30	.4*	.3	.2	.15	.13		NR	53	37
31	.1	.1	.1				NR	57	37
Total	2.4	2.9	2.6	0.27	0.28			62.6	38.2

Note: Blank spaces indicate no data.

NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
June 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							0	65	31
2							0	77	45
3							0	78	45
4							0	78	48
5							.02	65	49
6							0	65	35
7							0	69	35
8							0	68	37
9	0.1*	0.2*					NR	65	47
10							.10	62	38
11							.19	68	40
12							.12	79	42
13							.46	80	47
14							.67	76	47
15							.34	75	41
16							.43	72	51
17							.38	87	52
18							.17	87	52
19	.1						.53	89	54
20	.1*	.1*	0.1	0.01			.41	92	63
21	.6*	.6*	.7*	.02			NR	90	55
22							NR	74	48
23							.53	80	58
24							.36	85	58
25							.58	88	57
26							.67	90	66
27							.36	88	47
28							.53	86	54
29							.53	86	49
30							.43	87	48
31									
Total	0.9	0.9	0.8	0.03				78.4	48.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
July 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.53	89	59
2	0.6*	0.6*	0.7	0.04	0.11	0.12	NR	86	55
3	.8*	.9*	.9	.50			NR	70	51
4							NR	87	47
5							NR	85	52
6							.24	85	62
7							.38	87	61
8							.22	86	57
9							NR	93	62
10							NR	92	71
11							NR	90	
12							NR	87	
13							NR	92	
14							NR	90	
15							NR	94	
16							MR	94	66
17							NR	92	51
18							NR	93	58
19							NR	93	57
20							NR	93	62
21							NR	93	55
22							NR	96	53
23	.1						NR	96	58
24	.1		.1				NR	89	56
25							NR	88	47
26							NR	89	46
27							NR	92	41
28							NR	91	49
29							NR	91	45
30							NR	87	56
31							.22	82	49
Total	1.6	1.5	1.7	0.54	0.11	0.12		89.4	54.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1 . Daily rainfall, runoff, pan evaporation, and temperature,  
August 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.36	79	45
2							.50	71	41
3							.14	76	41
4							.07	78	45
5							.05	85	43
6							.05	93	52
7	0.2	0.2	0.2				.38	90	49
8	.3*	.5	.2				.67	83	52
9		.1	.1				NR	65	42
10							NR	65	41
11							NR	69	42
12							NR	72	34
13	.1						.07	79	41
14							NR	78	49
15							.34	70	35
16							.29	75	42
17							.26	80	38
18			.1				.14	84	39
19							.22	88	50
20							.12	85	45
21	.1		.1				.10	66	42
22			.1				.36	78	43
23		.1	.1				.79	79	45
24							.31	82	
25							.46	79	43
26							.34	71	40
27							.29	72	35
28							.29	70	45
29			.1				.22	72	33
30	.1						NR	60	40
31							.19	59	26
Total	0.8	0.9	1.0					75.9	41.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.1	0.1	0.1				.05	55	38
2							.10	55	18
3							.19	65	25
4							.26	74	33
5							.43	73	44
6							.22	70	36
7							.31	69	41
8							.31		43
9							.29		45
10							.29	71	52
11							.17	67	36
12		.1	.1				.02	44	31
13							.19	68	29
14							.34	72	34
15							.24	74	42
16							.38	72	47
17							.22	78	40
18							.26	77	46
19	.1	.1	.1				.14	66	42
20							.19	62	40
21							.22	60	25
22							.17	67	39
23							.26	71	32
24							.34	68	30
25							.31		41
26							.43		48
27							.22	62	37
28							.19	60	35
29							.19	58	23
30							.22	58	24
31									
Total	0.2	0.3	0.3					66.0	36.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1 . Daily rainfall, runoff, pan evaporation, and temperature,  
October 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								54	25
2								75	37
3								75	35
4	0.1	0.1	0.1					59	37
5			.1					46	24
6		.1						45	14
7								70	30
8								66	33
9								78	38
10								74	34
11								64	38
12								65	23
13								59	26
14								50	25
15								66	23
16								74	36
17								70	37
18								72	33
19								74	33
20								75	31
21								68	38
22								53	21
23								64	35
24								60	25
25								66	23
26								71	39
27								66	28
28								67	32
29								64	31
30	.6	.6	.5					53	45
31	.6	.7	.7	0.13	0.01			52	37
Total	1.3	1.5	1.4	0.13	0.01			64.4	31.2

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
November 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								39	28
2								41	27
3								41	26
4								59	30
5								54	23
6								56	28
7								63	26
8								54	40
9								45	28
10								46	20
11								41	24
12	0.2	0.3	0.2					46	15
13								42	20
14								35	14
15								39	19
16								50	20
17								52	19
18								52	25
19								43	26
20								54	27
21								65	
22								54	
23									12
24									
25								49	32
26								44	21
27								39	15
28								23	9
29								20	-3
30								26	12
31									
Total	0.2	0.3	0.2					45.4	21.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
December 1974

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	- - - - - Inches - - - - -							- - °F - -	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12		0.1	0.1						
13									
14	0.1								
15									
16									
17									
18	.1								
19		.1	.1						
20									
21									
22									
23		.1							
24									
25									
26									
27									
28									
29									
30									
31									
Total	0.2	0.3	0.2						

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
January 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10	0.1								
11	.2	0.1	0.2						
12	.2	.1	.1						
13		.2							
14									
15									
16									
17		.1							
18	.3	.2	.2						
19									
20									
21									
22		.1							
23	.1	.1	.2						
24									
25									
26		.1	.1						
27									
28									
29									
30									
31									
Total	0.9	1.0	0.8						

Note: Blank spaces indicate no data  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
February 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----			-----				-- °F --	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20		0.1							
21	0.2	.2	0.2						
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Total	0.2	0.3	0.2						

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1									
2									
3	0.1								
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17								43	
18								53	24
19								52	36
20								52	30
21								50	24
22	.2	0.2	0.2					44	25
23		.1						36	18
24								20	7
25								29	3
26								23	10
27	.1	.2	.1					16	6
28	.6	.5	.5					15	6
29		.1						19	-4
30	.2	.1	.1					46	5
31								40	4
Total	1.2	1.2	0.9						

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
April 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								22	2
2								35	0
3								42	
4								50	
5								50	
6								34	
7								38	24
8	0.4	0.5	0.4					39	21
9								36	23
10								35	22
11								35	27
12				0.31				42	18
13								41	26
14								53	21
15								52	29
16								50	31
17								50	31
18	.1	.1						37	22
19					0.03			49	28
20								53	32
21								66	27
22								65	41
23	.1	.1	.1					61	41
24	.3	.3	.2		.03			58	42
25					.21			64	44
26					.05			71	49
27	.1		.1					72	43
28	.6	.8	.6	.38	.15	0.17		58	36
29	.1			.02	.10	.12		38	40
30	.2	.2	.2	.12	.07	.05		42	29
31					.02	.04			
Total	1.9	2.0	1.7	0.83	0.66	0.38		47.9	28.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
May 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								48	31
2								54	
3								73	40
4								75	34
5	1.5	1.5	1.3	1.13	1.03	0.36		64	43
6	2.2	2.1	2.3	2.00	2.39	2.79		64	42
7	0.3	0.2	0.3	.19	.09	.01		58	37
8	.8	.6	.9	.64	.59	.76		49	40
9	.3	.3	.2	.24	.30	.31		57	44
10	.9	.7	1.0	.70	.66	.85		56	44
11								63	41
12								61	45
13								66	45
14								69	32
15								79	47
16	.3	.4	.3	.11				79	54
17		.1						79	47
18								74	44
19	.3	.2	.2					62	36
20	.6	.6	.7	.36	.16	.02		44	32
21	.2	.2	.1	.11	.24	.16		46	39
22	.4	.3	.4	.25	.40	.29		48	42
23						.02		61	38
24								71	45
25	.1	.1	.1					53	35
26								64	30
27								65	41
28	.3	.2	.3	.02				62	44
29		.1						63	34
30	.1	.1	.1					62	34
31	.3	.1	.3					60	36
Total	8.6	7.8	8.5	5.75	5.86	5.57		62.2	39.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
June 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.1	0.1	0.1					62	37
2								74	38
3								74	53
4								69	46
5								73	45
6	.1							74	51
7								74	45
8								59	48
9	.2	.1*	.2					56	42
10								61	40
11								71	39
12								76	43
13		.1	.1					75	50
14	.2	.1*	.1					62	46
15		.1*	.1					67	45
16								65	42
17								68	39
18	.4	.5*	.4	0.05		0.01		62	50
19	.5	.8*	.4	.35	0.16			74	53
20								72	52
21								70	52
22								74	40
23								81	46
24								87	53
25	1.3	1.4*	1.3	.70	.32	.15		86	65
26	.6	.8*	.6	.51	.61	.42		81	50
27								82	49
28								82	44
29	.1		.5					82	57
30	.3	.2*		.14				81	57
31									
Total	3.8	4.2	3.8	1.75	1.09	0.58		72.5	47.2

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
July 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								81	64
2								83	69
3								90	65
4								89	61
5								87	58
6								88	61
7								86	55
8	0.5*	0.4*	0.2*	0.03				76	56
9								78	51
10								78	47
11								77	39
12								79	45
13								86	55
14								87	59
15	.2*	.2*	.1*					93	56
16								93	58
17	.7*	.1*	1.3*	.02				81	57
18								79	56
19								78	48
20								87	47
21								90	53
22								87	55
23								86	53
24								81	47
25								91	57
26								91	48
27								92	55
28								99	60
29								100	58
30		.1						99	59
31								75	55
Total	1.4	0.8	1.6	0.05				86.0	55.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
August 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.1							83	44
2								82	45
3								83	49
4								84	45
5								79	52
6	.1*	0.1*	0.1*					94	62
7								97	61
8								94	50
9								83	45
10								90	48
11								91	44
12								85	50
13								80	41
14	.6*	.9*	.6*	0.05				76	52
15								74	42
16	.4*	.1*	.4*	.09				75	41
17								77	42
18								78	51
19								77	53
20								82	55
21			.1*					78	53
22	.1	.1*	.1*					84	58
23								86	45
24								85	47
25								61	40
26								71	36
27								87	50
28								91	59
29								91	45
30								82	45
31								81	47
Total	1.3	1.2	1.3	0.14				82.6	48.3

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								74	39
2								74	44
3								75	32
4								75	42
5								73	32
6								77	46
7								75	35
8								81	44
9								83	39
10								82	47
11								70	40
12								67	24
13								79	31
14								81	40
15								85	44
16		0.1*						85	46
17			0.1*					81	45
18								55	41
19								50	33
20								52	27
21								64	19
22								72	24
23								72	28
24								78	38
25								83	28
26								81	42
27								56	37
28								69	29
29								60	44
30								57	19
31									
Total		0.1	0.1					72.2	36.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
October 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								70	22
2								79	40
3								84	33
4								83	41
5								82	29
6								87	40
7								84	40
8	0.2	0.1	0.2					74	26
9	.1	.1						52	24
10								63	29
11								65	28
12								50	24
13								42	31
14	.1	.1	.1					39	25
15								60	25
16		.1	.1					56	32
17		.1						68	25
18								75	35
19								73	23
20								68	44
21	.1							51	32
22	.2	.3	.2					41	25
23		.1						33	20
24		.1						38	19
25								45	17
26								53	27
27								42	19
28								50	15
29								60	18
30								57	36
31								52	23
Total	0.7	1.0	0.6					60.5	28.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
November 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								65	25
2								64	23
3								68	27
4								73	37
5								77	35
6								63	33
7								58	26
8								46	35
9								44	11
10								39	7
11								42	18
12								38	22
13									25
14									20
15								60	23
16									25
17									22
18								45	22
19								35	15
20								30	12
21								35	-1
22								35	5
23								29	12
24		0.1	0.1					19	8
25								17	8
26								23	5
27								16	-1
28			.1					14	2
29		.1						13	-4
30			.1					8	-12
31									
Total		0.2	0.3					40.6	16.2

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
December 1975

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1	0.2	0.3	0.2					35	4
2								42	21
3								51	40
4								55	43
5								51	15
6								41	15
7								43	20
8								44	20
9								47	31
10	.1		.1					49	26
11		.2	.1					30	18
12								30	13
13								24	2
14								14	-6
15								27	8
16								17	-8
17								10	-20
18								39	0
19								38	7
20								40	15
21			.2					44	13
22								41	11
23								36	20
24								36	14
25								39	28
26								43	13
27	.2	.2	.3					40	33
28								36	23
29								39	20
30								42	30
31								33	13
Total	0.5	0.7	0.9					37.3	15.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
January 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.1		0.1					15	1
2	.1		.1					12	-5
3			.1					4	-10
4								27	-14
5			.1					39	10
6			.1					12	-27
7								-11	-25
8								11	-32
9								33	9
10								33	11
11								37	16
12								37	22
13								25	-5
14								34	8
15								40	22
16								40	9
17								47	30
18								41	25
19								31	13
20								38	21
21								43	15
22								48	30
23								40	20
24								30	4
25								23	-6
26								26	-12
27								42	18
28								42	23
29								42	28
30								39	25
31									
Total	0.2		0.5					30.7	7.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
February 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								42	20
2								40	25
3								39	9
4								9	-5
5								9	-7
6								25	-5
7								37	14
8								50	28
9								47	34
10								39	14
11								48	24
12								45	25
13	0.1								
14									
15								51	22
16								43	22
17								41	29
18								39	26
19								38	21
20								35	7
21								41	11
22								52	18
23								59	35
24								57	23
25								64	25
26								61	23
27								36	20
28								39	19
29								22	3
30									
31									
Total	0.1							41.0	17.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.2	0.1	0.2					18	10
2								16	-5
3								15	-25
4								12	-9
5								25	-13
6								38	16
7								36	13
8								45	14
9								47	24
10								54	24
11	.1							53	10
12								25	-8
13								35	18
14								33	11
15								35	16
16								46	15
17								55	23
18								60	30
19								60	35
20								47	25
21								42	26
22								59	23
23								60	36
24								54	21
25								55	34
26								49	25
27								50	23
28								46	18
29								46	10
30								50	16
31								65	23
Total	0.3	0.1	0.2					42.9	15.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
April 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								66	36
2	0.1	0.1	0.1					49	24
3								44	15
4								63	32
5								69	28
6								68	42
7								66	39
8								63	37
9									
10									
11								77	28
12		.2						81	41
13	.2	.1	.5					80	48
14	.6	.5	.3	0.13	0.06			70	41
15		.2						68	41
16	.7	.6	.7	.43	.31	0.18		65	36
17				.03	.17	.09		39	26
18					.01			51	20
19								50	29
20								57	22
21	.1	.1	.1					56	32
22	.5*	.4*	.4*	.06	.01			60	24
23								59	37
24								48	31
25								56	32
26	.1	.1	.1					55	35
27	.2*	.4*	.2*	.03				45	34
28	.4*	.1*	.2*	.08	.06	.02		42	31
29		.1						45	35
30								53	31
31									
Total	2.9	2.9	2.6	0.76	0.62	0.29		58.8	32.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
May 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								68	37
2								67	13
3								65	23
4			0.1					75	39
5	0.1	0.1*					NR	72	35
6							0	56	35
7							0	65	35
8							0	74	35
9							0	76	43
10							0	80	43
11	.1*	.1	.1*				NR	76	40
12	.9*	1.1*	.8*	0.25	0.25	0.25	NR	56	31
13				.27			NR	72	29
14				.05			NR	73	51
15							NR	71	42
16							.05	66	29
17							.46	72	36
18							.21	75	54
19	.1	.1					.07	73	47
20	.3*	.2*	.3*				NR	73	50
21							NR	71	41
22							NR	68	38
23							NR	63	37
24							NR	61	45
25							NR	74	44
26							.62	72	36
27							.07	75	43
28							NR	79	49
29	.1*	.1*	.1*				NR	78	47
30							0	65	50
31							.07	80	50
Total	1.6	1.7	1.4	0.57	0.25	0.25		70.7	39.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
June 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.05	82	51
2							NR	89	57
3							NR	89	50
4	0.1*	0.2*	0.1*				.05	89	55
5	.3*	.7*	.4*				NR	88	55
6	.1*						NR	83	
7		.1		0.01			NR	82	55
8							NR	87	59
9							NR	87	60
10							.05	89	59
11	.1*	.1*	.1*				NR	89	60
12	.3*	.2*	.3*				NR	74	45
13	.6*	.4*	.6*	.6			NR	65	45
14	1.6	1.6	1.7	1.4	0.70	0.70	NR	63	47
15						.01	NR	71	42
16	.3	.2	.3	.08			NR	67	45
17	.2	.3	.3	.20	.04	.07	NR	62	55
18	.1						NR	63	
19							NR	78	
20							NR		
21					.03		NR	78	50
22	1.0	1.2*	1.4	.61	.16	.44	NR	75	56
23	.2	.2*	.1	.14	.16	.22	NR	74	
24		.1*					NR	65	46
25	.1	.3*	.1				NR	63	48
26							NR	63	38
27							.14	72	41
28							.17	76	43
29							.24	74	42
30							.50	79	55
31									
Total	4.9	5.6	5.4	3.04	1.09	1.44		76.7	50.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
July 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1							.46	82	57
2	0.5*	0.6*	0.6*	0.08			.14	82	
3							NR	79	55
4							.12	81	56
5							.34	82	65
6							.48	86	
7							.55	87	58
8							.36	88	61
9							.58	90	64
10							.53	90	61
11							.62	90	67
12							.50	91	66
13	.1*	.1*	.1*				.31	90	53
14							.38	83	51
15							.41	83	46
16							.31	84	45
17							.55	92	55
18							.46	92	70
19							.55	88	55
20							.34	86	52
21							.46	88	52
22							.48	89	58
23							.48	95	54
24							.79	99	70
25							.50	98	70
26							.53	87	55
27							.62	87	66
28							.43	85	45
29							.41	91	44
30							.31	90	59
31							.41	82	56
Total	0.6	0.7	0.7	0.08				87.6	57.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
August 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.29	79	59
2							.36	85	60
3		0.1*					.38	87	56
4							.48	87	55
5							.14	79	55
6							.48	82	52
7							.50	95	62
8							.46	96	62
9							.43	89	53
10	0.1*	.1*					.43	82	52
11							.38	81	51
12							.31	89	51
13							.48	88	53
14							.53	82	53
15	.1*	.1*					.41	84	61
16			0.1				.46	90	60
17							.36	89	55
18							.43	93	58
19							.43	91	55
20							.53	91	54
21							.41	90	49
22							.70	93	58
23	.1*	.1*	.1*				.55	97	62
24							.19	80	59
25							.29	88	51
26	.1		.1				.41	87	54
27		.1					.31	70	42
28							.33	80	38
29							.31	90	49
30							.34	85	59
31							.31	86	50
Total	0.4	0.5	0.3					86.6	54.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.38	88	47
2							.62	93	61
3							.34	87	45
4							.29	88	47
5							.36	95	55
6							.67	100	57
7	0.2*	0.2*	0.1*				.14	98	49
8							.26	61	32
9							.26	72	32
10							.29	82	40
11	.1*	.1					.31	92	46
12	.1	.1*					.24	90	52
13			.1				.17	73	38
14							.31	81	50
15							.24	82	52
16							.24	85	52
17							.41	89	61
18							.38	88	53
19							.12	66	46
20							.29	71	30
21							.26	77	34
22							.34	74	39
23							.19	72	42
24	.2*	.1*	.2*				.17	72	39
25	.2*		.1*				NR	71	45
26							NR	65	43
27							NR	60	25
28							.17	72	33
29							.31	78	32
30							.41	79	44
31									
Total	0.8	0.5	0.5					80.0	44.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
October 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1							.24	82	44
2							.36	88	46
3							.24		45
4							.17	50	29
5		0.1					.14	55	23
6	0.3	.2*	0.1				.10	55	33
7							.02	56	26
8							.02	67	40
9							.31	74	38
10							.14	79	40
11							.34	67	44
12							.22	63	38
13							.10	71	34
14								70	37
15								46.	15
16								47	17
17								46	18
18								31	25
19								40	12
20								41	28
21								47	
22								51	26
23								51	25
24	.1	.2	.1					42	15
25								38	25
26								35	29
27	.1							51	27
28								63	38
29								60	27
30								53	24
31								63	28
Total	0.5	0.5	0.2					56.1	29.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
November 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								65	36
2								58	19
3								46	16
4								63	15
5								62	26
6								49	18
7								51	15
8								55	31
9								46	22
10								34	15
11								25	-2
12								29	-4
13								31	-3
14								42	-3
15								48	2
16								48	
17								62	
18								59	30
19								47	18
20			0.1					41	9
21								25	2
22								30	5
23								40	6
24								53	29
25		0.1						49	26
26								26	0
27								2	-15
28								13	-21
29								9	-8
30								34	-8
31									
Total		0.1	0.1					41.4	9.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
December 1976

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1		0.1						42	8
2								42	21
3								35	25
4								27	14
5	0.1							30	4
6	.1	.1	0.1					25	-8
7	.1							33	-8
8								44	9
9								42	5
10								31	14
11								40	23
12								39	21
13								43	21
14								40	22
15								41	20
16								48	24
17								51	36
18								46	21
19								35	13
20								32	1
21								38	0
22								36	0
23								38	5
24								35	24
25								33	12
26								46	20
27									
28								29	11
29	.1	.4						22	5
30		.1							-16
31								14	-16
Total	0.4	0.7	0.1					36.4	11.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
January 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1		0.1						9	-15
2								9	-11
3								23	-15
4	0.1	.1	0.1					15	0
5								6	-9
6		.1						29	1
7	.2	.2	.1					32	4
8			.1					5	-27
9	.2	.1	.1					4	-23
10	.1	.1	.1					10	-25
11	.1							8	-5
12								22	-7
13		.1						30	13
14	.1	.1						28	-1
15	.2	.1	.2					1	-17
16	.1	.1	.1					18	-17
17	.1							22	2
18		.2	.2					39	-9
19								40	23
20								32	11
21								40	10
22			.1					35	21
23								28	17
24			.2					25	15
25	.1	.2	.1					32	17
26	.2	.1	.3					30	20
27	.2	.2						30	-5
28	.1	.1						-1	-35
29								5	-19
30	.1	.1						10	-21
31	.1	.1						30	3
Total	2.0	2.1	1.7					20.8	-3.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
February 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1		0.1						34	9
2		.1	0.1					28	14
3								36	17
4								35	24
5								36	10
6								38	9
7								39	
8								44	16
9								45	15
10								42	25
11								40	38
12									
13									
14								41	17
15								40	15
16								43	22
17								43	31
18	0.1							40	29
19								38	16
20								54	19
21								54	30
22								50	29
23								41	29
24								38	29
25								34	22
26								35	11
27								35	16
28								33	17
29									
30									
31									
Total	0.1	0.2	0.1					39.8	20.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								37	14
2								37	16
3								28	17
4								40	18
5								37	12
6								50	19
7								58	35
8								58	30
9		0.1						57	32
10								51	29
11								42	28
12								45	18
13								58	20
14								40	29
15								41	18
16								50	19
17								50	
18								42	18
19								40	16
20								34	12
21								45	20
22								53	31
23									31
24								66	30
25	0.1	.1	0.2					50	32
26		.1						47	29
27								59	34
28	.1	.1	.2					55	30
29	.2	.1	.1					33	22
30		.2	.1					28	20
31								40	25
Total	0.4	0.7	0.6					45.7	23.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
April 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							--- °F ---	
1								38	15
2								38	11
3								35	12
4		0.1						39	22
5			0.1					48	30
6								67	35
7								71	29
8								76	35
9								76	48
10								71	36
11								60	25
12								61	39
13								63	33
14								70	38
15								66	32
16								70	42
17								68	44
18	0.1	.1						50	40
19	.1	.1						52	38
20		.1						57	24
21			.1					62	22
22								71	34
23								69	33
24								66	30
25								73	32
26								80	38
27								80	45
28								73	35
29								79	49
30								79	47
31									
Total	0.2	0.4	0.2					63.6	33.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
May 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1									
2								78	40
3								80	50
4								78	45
5							.22	61	30
6	0.1	0.1					.22	62	45
7							.43	72	41
8							.31	82	53
9							.53	86	58
10							.50	85	86
11							.48	81	50
12							NR	84	53
13							.26	85	55
14							.38	82	58
15	.1*	.1	0.1*				NR	68	45
16							.26	71	37
17							.50	75	47
18	.1*	.1	.1*				NR	73	43
19	.1*	.1*	.1*				NR	52	40
20	.1*						NR	73	31
21							.36	69	37
22							.36	73	36
23							.50	84	48
24							.50	89	62
25							NR	88	59
26							.24	75	48
27	.1*	.1*	.1*				.38	76	52
28							.22	76	40
29							.34	67	38
30	.2*	.2*	.2*				NR	78	45
31							.38	78	41
Total	0.8	0.7	0.6					76.0	46.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
June 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.41	86	40
2							.70	86	62
3							.46	80	55
4							.53	89	57
5							.65	89	50
6							.50	87	55
7							.53	92	60
8							.72	93	50
9	2.3*	2.6*	1.7	0.84	0.49	0.02	NR	91	52
10	0.8*	0.6*	0.8	.60	.45	.29	NR	86	55
11							NR	70	49
12	1.5*	.9*	1.6	1.26	.67	1.00	NR	74	55
13	1.1*	.6*	.9	.56	.03	.57	NR	73	48
14	.1*				.06	.04	NR	82	56
15	.1						NR	83	51
16							NR	80	47
17							NR	72	52
18							NR	75	41
19							.38	76	48
20	.1	.1*					.48	73	53
21	.1	.2*	.1				NR	70	55
22							.26	82	52
23							.38	82	52
24							.43	86	60
25							.50	94	62
26							.65	94	59
27							.62	85	57
28							NR	79	44
29							.55	81	60
30							.48	73	46
31									
Total	6.1	5.0	5.1	3.26	1.70	1.92		82.1	52.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
July 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1							.34	86	47
2							.02	89	63
3							0	87	55
4							0	86	59
5	0.1						NR	86	60
6							.21	85	59
7							NR	77	49
8							.38	78	41
9							.53	87	53
10		0.1					.48	86	57
11							.46	72	50
12							NR	93	47
13							NR	93	63
14	.1						.31	82	45
15	.3*	.4*	0.2*				.29	86	59
16							.55	97	59
17							.70	102	71
18							.77	102	55
19							.48	101	64
20							.24	83	59
21							.62	83	55
22							.50	93	61
23							.48	96	59
24							.48	95	66
25							.36	81	59
26							.34	88	59
27							.43	88	55
28							.46	87	51
29							.50	98	61
30							.36	85	51
31							NR	80	47
Total	0.5	0.5	0.2					88.1	56.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
August 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1							NR	82	53
2							NR	84	52
3	0.4*	0.7*	0.2*				NR	92	50
4	.1*		.1*				NR	85	53
5	.4*	.4*	.4*				NR	75	52
6				0.10			NR	76	54
7							NR	79	49
8	.1*		.1*				NR	85	49
9							.41	83	53
10	.1	.1*	.1				NR	70	48
11							NR	79	37
12							.65	88	49
13							.24	87	45
14							.22	78	42
15	.1	.1*					.17	69	49
16							.02	68	48
17							.38	82	45
18							NR	83	49
19							.36	80	53
20							.38	80	52
21							.26	78	43
22							.36	77	54
23							.22	76	51
24							.60	92	59
25							.41	91	60
26	.1	.1*	.1				.10	77	54
27		.1	.1				NR	57	51
28							.12	70	41
29							.41	80	51
30	.1		.1				.26	78	50
31							.14	68	44
Total	1.4	1.5	1.2	0.10				79.0	49.7

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.2*	0.1*	0.2*				NR	67	
2							NR	69	
3							.31		
4							.41	86	40
5							.38	85	42
6		.1*					.41	84	60
7							NR	87	51
8	.2*	.2*	.2*				NR	85	46
9							NR	67	39
10							.26	75	39
11							.36	72	48
12							.29	67	48
13							.24	74	37
14							.36	87	51
15							.29	86	
16							.22		44
17	.1*	.1*	.1*				NR	77	49
18							NR	61	41
19							.24	69	38
20							.29	75	47
21	.5*	.6*	.4*	0.05			NR	73	48
22							NR	64	33
23	1.1*	1.0*	1.1*	.69	0.01		NR	62	46
24							NR	57	42
25							NR	60	38
26							NR	64	36
27							NR	70	41
28							NR	69	45
29							NR	64	44
30	1.2*	1.1*	1.2*	.84	.21	0.31	NR	52	41
31									
Total	3.3	3.2	3.2	1.58	0.22	0.31		71.7	43.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
October 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	1.0*	1.1*	1.0*	1.14	0.58	0.87		43	34
2								55	34
3								61	40
4								59	37
5								47	22
6								53	34
7	1.2	1.2	1.2	1.03	.67	.79		46	33
8								52	35
9								52	37
10								38	25
11								45	15
12								65	29
13								67	36
14								57	42
15								60	26
16								76	41
17								64	34
18								71	31
19								79	37
20								77	35
21								56	40
22								63	40
23								64	34
24								65	34
25								75	42
26								71	34
27								61	30
28								70	45
29								74	40
30								62	33
31								48	33
Total	2.2	2.3	2.2	2.17	1.25	1.66		60.5	34.3

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
November 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								45	28
2								64	37
3								50	25
4								68	33
5								59	30
6								54	33
7		0.1	0.1					56	28
8								47	25
9								36	8
10								46	18
11								55	24
12								61	
13									25
14								50	30
15	0.1	.1	.1					49	28
16								38	24
17								38	17
18	.1	.1						31	12
19	.1	.1	.1					24	18
20			.1					19	-1
21		.2	.1					12	-15
22	.1	.1	.1					18	-16
23	.1							11	-5
24	.1	.1	.1					24	-5
25	.1	.1	.1					22	-7
26	.4	.1	.1					42	12
27								35	17
28								38	26
29	.1							44	31
30	.1							42	25
31									
Total	1.3	1.0	0.9					40.6	17.4

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
December 1977

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1			0.1					30	20
2	0.2		.1					29	11
3	.1	0.1	.1					42	27
4								41	3
5	.1		.1					5	-15
6	.3	.1	.1					2	-20
7	.2	.1	.2					20	0
8	.2	.2	.2					7	-22
9	.1	.1	.1					-4	-30
10	.1	.1						28	-12
11	.2							49	7
12								47	34
13								45	23
14								45	32
15								47	31
16								43	32
17								34	21
18								27	19
19								20	15
20								20	0
21								39	9
22								35	20
23								30	14
24	.1	.1	.1					14	-1
25								19	-4
26	.2	.1	.2					20	10
27	.1							20	4
28								30	8
29	.2							22	5
30			.1					20	4
31			.1					6	-5
Total	2.1	0.9	1.5					26.8	7.7

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
January 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1		0.1	0.1					8	-11
2								22	3
3								20	5
4								23	2
5			.2					38	2
6	0.1	.1						46	27
7		.1	.1					39	-15
8		.1	.1					10	-1
9								5	-2
10								10	-2
11			.1					23	-16
12	.1							32	3
13								16	4
14								30	1
15								18	-5
16								5	-9
17								21	0
18								11	-11
19								9	-8
20								10	-5
21								32	-4
22	.1	.1						35	15
23								34	14
24	.1	.1						25	10
25	.2	.1	.1					25	-15
26	.2	.1						9	-9
27	.1	.1	.1					20	-7
28	.1							17	-5
29								17	-6
30								14	-7
31								7	-9
Total	1.0	0.9	0.8					20.4	-2.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
February 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1		0.1						-2	-18
2								12	-15
3	0.1	.2	0.2					42	4
4	.1							35	6
5	.1	.1	.2					21	0
6	.1	.1	.1					21	7
7	.1		.1					17	7
8		.1	.1					14	6
9		.1	.1					16	8
10		.1	.1					18	7
11		.1						14	9
12		.1	.1					10	3
13		.1	.1					11	3
14								17	5
15								16	-12
16			.1					8	-11
17								23	-17
18		.1						24	-7
19	.1	.1						28	11
20								25	5
21	.2	.1	.1					42	15
22								41	31
23								41	16
24								40	16
25								19	5
26								23	2
27								17	1
28								17	-3
29									
30									
31									
Total	0.8	1.4	1.3					21.8	3.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								17	-8
2								7	-10
3								10	-17
4								25	-18
5	0.1		0.1					35	6
6	.1							30	18
7		.1						42	15
8								50	25
9								48	31
10								44	25
11								42	20
12								42	21
13								32	24
14								31	21
15		.1						33	15
16								30	12
17								48	12
18								48	31
19								48	19
20								46	29
21								52	27
22								45	31
23			.1					37	30
24	.1	.1						44	34
25								53	32
26								60	31
27								60	40
28								59	35
29								74	38
30								76	37
31								75	42
Total	0.3	0.3	0.2					43.3	20.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
April 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								46	22
2	0.2	0.5	0.3					61	33
3	.2	.1						60	38
4								62	29
5								59	32
6								58	26
7	.1		.2					58	24
8		.1						60	26
9	.1							58	33
10			.1					48	26
11	.2	.3	.1					56	25
12								50	31
13								51	23
14								50	35
15	.1	.1	.1					48	34
16			.1					48	25
17								47	35
18	.2	.2	.2					42	35
19								43	28
20								49	20
21	.1	.1						58	30
22								56	36
23								51	28
24								56	29
25								68	29
26								69	45
27								66	44
28	.1*	.1*	.1*					60	46
29								60	44
30								55	45
31									
Total	1.3	1.5	1.3					55.1	31.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
May 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1								60	43
2								64	38
3	0.6*	0.3*	0.6*	0.10				65	38
4	.2*	.3*	.2*	.16				51	
5	.1	.1	.1	.02				54	38
6		.1*						55	37
7	1.0*	.8*	1.0*	.83	0.27	0.43		55	
8	.1*	.2*	.1*	.20	.02	.19		55	
9								67	36
10	.2*	.1*	.1*	.03				69	36
11	.2*	.4*	.4*	.06	.01			65	38
12	.1	.1*	.1	.03				55	38
13								69	33
14								75	
15								85	55
16								85	42
17	.2*	.3*	.1*					60	49
18	.5*	.6*	.5*	.25	.05			61	
19	.2*	.2*	.2*	.23	.08			54	43
20								65	33
21								77	47
22								82	53
23	.1	.1*	.1					81	45
24								84	58
25								78	44
26								75	42
27	.4*	.6*	.4*	.04				66	41
28								72	42
29	.3*	.1*	.3*	.07				70	44
30	.2*	.2*	.2*	.12				56	41
31	.4*	.5*	.3*	.29	.07			45	
Total	4.7	5.0	4.7	2.43	0.50	0.62		66.3	42.2

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
June 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1		0.1	0.1				NR	53	38
2							NR	67	39
3							NR	69	31
4							NR	72	40
5							NR	75	46
6	0.2*	.1*	.1*				NR	78	49
7	.1						NR	77	45
8	.						.24	73	47
9							.26	85	53
10							.19	85	51
11		.1*	.1				.24	63	47
12							.34	73	38
13							NR	85	52
14							.48	85	56
15	.2*	.2*	.2*				.17	81	56
16							NR	81	47
17	.3*	.2*	.3*	0.01			NR	81	45
18							.26	82	46
19							.36	81	52
20							.17	65	41
21							.36	80	44
22	.1	.1					NR	79	53
23							.46	85	49
24	.5*	.6*	.5*	.06			.38	85	48
25	.7*	1.1*	.9*	.44	0.16	0.04	NR	86	44
26	.1*	.1*	.1*				NR	71	50
27							NR	84	44
28							.55	86	47
29							.17	85	67
30							.19	86	63
31									
Total	2.2	2.6	2.3	0.51	0.16	0.04		77.9	47.6

Note: Blank spaces indicate no data.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
July 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1	0.2*	0.5*	0.1*				NR	86	58
2			.1				.53	84	55
3		.1					.38	83	59
4							.48	86	59
5							.34	80	49
6	.4*	.3*	.1*	0.02			NR	80	55
7							NR	80	47
8							.38	85	51
9							.24	81	48
10							.41	80	47
11	.2*	.1*	.4*				.38	90	63
12							NR	81	54
13							.31	85	45
14							.38	87	49
15			.1				.31	92	49
16							.02	94	63
17							NR	91	60
18	1.3*	1.4*	1.3*	.49	0.15	0.04	NR	91	45
19							NR	81	51
20	.2*	.2	.3*	.03			NR	65	53
21	.4*	.5*	.5*	.20	.01	.06	NR	65	51
22			.3				NR	75	50
23							NR	85	54
24			.1				NR	93	63
25							NR	92	65
26							NR	88	58
27							NR	87	58
28							NR	87	55
29	1.1*	.8*	.5*	.33	.01		NR	80	51
30							NR	78	52
31	.8*	1.0*	.9*	.62	.25	.13	NR	79	55
Total	4.6	5.9	3.9	1.69	0.42	0.23		83.6	53.9

Note: Blank spaces indicate no data.  
NR indicates nor record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
August 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1	0.2*	0.1*	0.1*	0.11	0.02		NR	79	53
2	.2*	.3*	.2	.04			NR	78	47
3							NR	68	34
4							NR	81	41
5			.1				NR	88	41
6							NR	94	57
7							NR	90	57
8							NR	87	49
9							NR	88	49
10							.38	93	57
11							.36	93	58
12							.50	93	62
13							.53	94	68
14							.14	81	55
15							.41	77	50
16							NR	86	51
17							NR	81	50
18							NR	72	47
19							NR	82	42
20							NR	80	57
21							NR	91	48
22							NR	86	58
23							.26	83	54
24							.29	92	59
25							.77	93	69
26							.48	93	54
27	.8*	.5	.5*	.12			NR		46
28							NR		43
29							.22	78	46
30	.1*	.2	.1				NR	82	50
31	.2*	.4	.1	.01			NR	88	60
Total	1.6	1.6	1.2	0.28	0.02			85.2	52.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.22	87	48
2							.31	92	60
3							.48	98	48
4							.38	97	48
5							.55	103	63
6							.41	99	63
7							.46	93	59
8	0.1						.34	94	59
9							.43	94	48
10							.43	94	48
11	.2*	0.1	0.2*				NR	89	54
12	.6*	.5	.5*	0.25	0.01		NR	54	41
13		.1	.1				NR	47	39
14							NR	62	36
15							NR	76	36
16							NR	76	36
17			.2				.05	66	36
18	.3*	.3	.3*	.08			.05	58	44
19							NR	55	
20			.3*				NR	62	
21							NR	65	30
22							.19	73	46
23							.24	74	40
24							.22	75	41
25							.24	80	48
26							.29	79	47
27							.22		
28							.53	77	44
29							.24	77	44
30							.19	77	35
31									
Total	1.2	1.0	1.6	0.33	0.01			78.4	46.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
October 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								66	46
2								65	39
3								60	34
4								60	33
5								53	33
6								59	21
7								67	34
8								65	44
9								67	30
10								76	30
11	0.1							72	44
12	.3	0.3	0.2					47	40
13			.1					49	28
14								60	21
15								56	27
16								66	34
17								65	35
18								55	33
19								70	41
20								73	41
21								68	41
22								47	19
23								63	19
24								65	49
25								50	33
26								60	21
27								56	20
28								57	35
29								63	32
30								46	24
31								55	20
Total	0.4	0.3	0.3					60.7	32.3

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
November 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								67	28
2								70	38
3								67	33
4								66	34
5								57	21
6								51	18
7								68	25
8		0.1						65	47
9	0.4	.4	0.4					55	27
10	.1	.1	.1					39	15
11	.1							17	12
12		.1						21	12
13	.3	.3	.2					18	12
14	.2	.1						21	9
15								25	4
16								32	7
17	.1	.1	.1					36	12
18			.1					35	-17
19		.1						35	-3
20								8	-9
21			.1					15	-8
22	.1							25	6
23								31	6
24								33	19
25								35	10
26	.1	.1	.1					26	7
27		.1	.1					25	14
28	.1	.1						34	13
29	.1							33	23
30								31	21
31									
Total	1.6	1.6	1.2					38.0	14.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
December 1978

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.1	0.1	0.1					31	-7
2								14	-14
3								22	-11
4	.1	.1	.1					30	19
5	.1	.1						23	4
6								15	-12
7			.1					6	-10
8								9	0
9			.1					28	-13
10								30	23
11								39	15
12	.1							38	15
13								27	15
14									
15								34	23
16								26	14
17								34	11
18			.1					35	
19								33	10
20								24	5
21	.1	.1	.1					32	19
22								32	8
23		.1	.1					32	8
24	.1	.1	.1					35	12
25		.1						32	13
26								20	7
27	.1							20	3
28	.1	.1	.1					14	-9
29	.1	.1	.1					-7	-17
30	.1							0	-28
31								-9	-31
Total	1.0	0.9	1.0					23.3	2.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
January 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1			0.2					-1	-18
2	0.1	0.1						3	-13
3		.1	.1					2	-22
4								2	-26
5								5	-21
6								8	-5
7		.1						3	-7
8								20	-5
9								11	-16
10								9	-15
11	.1	.1	.1					18	-1
12								0	-15
13								-5	-25
14								7	-23
15		.1						9	-9
16								15	-20
17								27	8
18	.1							31	9
19			.1					27	10
20								27	11
21		.2						39	7
22	.1		.2					34	-5
23		.1						34	-16
24	.1	.2						37	
25		.1						26	10
26			.1					11	-6
27								20	-8
28								6	-13
29								3	-22
30								5	-22
31								15	-15
Total	0.5	1.1	0.8					14.5	-9.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
February 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								6	-10
2								9	-22
3		0.1						10	-22
4		.1	0.1					13	-5
5		.2	.1					36	-7
6								37	3
7	0.2		.2					35	12
8	.1	.1	.1					35	-8
9								39	-5
10								42	30
11			.1					30	1
12								40	-3
13			.1					48	6
14	.1	.3	.2					45	0
15								18	-18
16	.1		.2					-1	-26
17	.1	.1	.1					25	-11
18	.1	.1	.1					42	8
19	.1	.1	.1					40	19
20			.1					37	11
21								33	11
22	.1							29	7
23	.1	.1	.1					9	-10
24	.1	.1	.1					25	-4
25	.1	.1	.1					46	7
26	.1	.1	.2					46	9
27								39	17
28								30	13
29									
30									
31									
Total	1.3	1.5	2.0					30.1	0.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1		0.1						25	15
2								16	9
3	0.1		0.1					32	-9
4	.1		.1					34	4
5	.3	0.4	.4					42	22
6			.1					44	21
7	.3	0.4	.3					49	21
8								47	29
9								37	11
10								39	0
11								48	31
12								51	30
13			.1					39	18
14								41	25
15								55	26
16								54	34
17								52	32
18								34	23
19								29	22
20								38	19
21								43	18
22								39	28
23								40	25
24								54	20
25								54	17
26								31	10
27								46	21
28								46	11
29								50	24
30		.1						50	24
31	.1		.1					51	24
Total	0.9	1.0	1.2					42.3	19.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
April 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	- - - - - Inches - - - - -							- - °F - -	
1								34	15
2								34	19
3								43	17
4	0.1	0.1	0.1					42	17
5			.1					28	7
6								57	13
7	.1	.2	.1					55	35
8								56	21
9								63	35
10								58	35
11	.1	.3	.2					47	31
12	.2	.2	.1					36	
13	.1	.1						39	17
14					0.01			52	28
15								64	33
16								68	31
17								71	
18								79	54
19								66	35
20								56	34
21								59	30
22								63	40
23								60	39
24								46	36
25								52	31
26								50	36
27								54	19
28								55	
29								51	
30								63	27
31									
Total	0.6	0.8	0.6		0.01			53.4	28.3

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
May 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								63	31
2								51	30
3								61	26
4								61	26
5	0.1	0.1	0.1						
6								67	38
7								49	36
8								46	24
9	.1	.1	.1					42	30
10								43	26
11	.1	.2	.1					50	21
12								59	
13	.1	.1	.1					59	47
14								62	28
15								78	38
16							.02	85	55
17							.14	85	48
18	.1						.14	65	37
19							.17	64	41
20							.22	63	25
21							.48	75	42
22							.38	73	33
23							.24	74	34
24							.43	80	45
25	.1*	.1*	.2*				NR	81	55
26							.26	81	43
27							.55	87	56
28							.31	85	50
29	.5*	.5*	.5*	0.04			NR	54	42
30				.01			NR	56	40
31	.1*	.2*	.1*				NR	57	51
Total	1.2	1.3	1.3	0.05				65.2	37.9

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
June 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1							NR	65	35
2							.31	76	44
3							.31	81	45
4							.26	81	41
5							.22	81	58
6	0.2*	0.2*	0.2*				.31	80	51
7	.4*	.5*	.4*	0.22			NR	68	41
8							NR	58	32
9							NR	65	42
10							NR	80	38
11							.31	88	48
12							NR	92	56
13							NR	98	58
14							NR	94	59
15							.41	78	42
16							.46	77	52
17							.43	76	53
18							.22	65	54
19							.17	66	52
20							.38	75	50
21	.1*	.1*	.1*				.34	81	41
22							NR	78	44
23							.38	80	50
24							.36	85	56
25							NR	86	53
26							NR	80	53
27	.1	.1*	.1				NR	84	57
28							.46	80	54
29							.48	89	50
30							.50	88	65
31									
Total	0.8	0.9	0.8	0.22				79.2	49.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
July 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1							.53	87	52
2							.34	86	64
3							.53	89	52
4	0.4*	0.1*	0.6*				NR	88	62
5							.31	80	
6							.38	82	59
7	.3*	.1*					NR	85	
8			.1				.77	92	
9							NR	87	62
10							NR	94	56
11							.46	94	63
12							.41	83	59
13		.1					.34	76	59
14							.46	80	45
15							.41	88	48
16							.24	76	57
17							NR	83	49
18							NR	88	56
19							NR	93	54
20							.48	95	64
21							.46	97	61
22		.1*	.2				.46	98	67
23			.1				NR	79	64
24	.3*	.4*	.3*				NR	89	56
25	.8*	.7*	.7*	0.20			NR	73	54
26							NR	75	57
27							NR	80	55
28		.1					NR	84	58
29	.1*	.1*	.2*				.34	84	60
30							.29	77	54
31							.31	85	52
Total	1.9	1.7	2.2	0.20				85.4	57.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
August 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.50	89	61
2							.36	89	54
3							.43	93	55
4							.29	92	59
5							.34	86	61
6							.50	91	63
7							.36	90	63
8							.17	80	58
9							.34	73	60
10							.29	79	43
11							.43	87	
12							.43		51
13	0.1*	0.1*	0.1*				NR	68	50
14		.1	.1				NR	66	44
15							.29	79	48
16							.26	89	60
17							.41		
18							.34	88	51
19							.34	84	57
20							.22	76	52
21	.2*	.1*	.3*				NR	72	49
22			.1				NR	73	48
23							.26	80	44
24							.12	81	49
25	.1*	.1*	.1*				.12	81	53
26	.2*	.2*	.3*				NR	68	51
27	.1	.3*	.1				NR	80	50
28		.1					.34	78	54
29							.36	84	49
30							.51	94	57
31	.2*	.3*	.2*				.62	94	61
Total	0.9	1.3	1.3*					82.2	53.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1	0.2*	0.2*	0.1				NR	78	55
2							.38		
3							.29	93	59
4							.41	91	58
5							.34	77	46
6							.36	82	46
7							.34	89	57
8							.38	91	57
9							.48	90	62
10	.6*	.3*	.5*	0.02			NR	80	50
11	.2*	.1*	.2				NR	66	35
12		.1					NR	65	41
13							NR	58	35
14							.22	69	30
15							.34	84	41
16							.29	89	48
17							.38	83	44
18							.36	78	42
19							.36	82	56
20							.22	79	44
21							.29	79	49
22							.31	78	54
23							.24	76	42
24							.17	77	41
25							.29	81	44
26							.41	79	61
27							.29	77	52
28							.26	80	45
29							.24	79	44
30							.36	75	42
31									
Total	1.0	0.7	0.8	0.02				79.5	47.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
October 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								79	30
2								67	44
3								59	35
4								75	29
5								76	36
6								63	34
7									
8									37
9								49	32
10								72	37
11								72	42
12	0.1	0.1						55	40
13								62	30
14								76	35
15								71	46
16	.1	.1	0.2					69	41
17								63	34
18	.1							62	34
19								68	43
20		.2						65	31
21	.1	.1	.2					45	31
22								49	22
23								60	32
24								60	37
25								68	38
26								68	48
27								58	33
28								53	30
29								48	33
30								46	18
31								43	11
Total	0.4	0.5	0.4					62.3	34.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
November 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								36	16
2								43	11
3								43	20
4								37	22
5		0.1	0.1					33	24
6								40	26
7								38	20
8								40	12
9								25	15
10	0.1							32	14
11								33	26
12								42	20
13								45	16
14								54	22
15								60	33
16								62	34
17								56	27
18								56	27
19								40	23
20								32	22
21								32	3
22								36	7
23								36	8
24								35	20
25								33	26
26								31	12
27								27	12
28								14	6
29								23	7
30								35	12
31									
Total	0.1	0.1	0.1					38.3	18.1

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
December 1979

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								40	14
2								48	19
3								45	22
4								57	29
5								56	26
6	0.1	0.1	0.1					46	33
7								40	22
8								50	13
9								59	35
10								53	20
11								22	-6
12								38	15
13								36	5
14								49	25
15								45	-8
16								22	-21
17								48	9
18								59	41
19								62	26
20									
21								52	20
22								42	20
23								34	11
24								41	12
25								45	23
26								42	26
27								44	12
28								43	16
29								43	23
30								35	9
31								44	5
Total	0.1	0.1	0.1					44.7	16.5

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
January 1980

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								45	20
2								28	19
3								37	15
4								35	5
5	0.2	0.1	0.1					28	4
6	.2	.2	.2					29	-12
7								-2	-16
8								-6	-20
9								4	-25
10								18	-4
11	.1	.1	.1					17	-18
12								50	9
13								49	31
14								50	27
15								44	25
16								44	20
17								47	24
18								32	18
19								27	-6
20								30	8
21								30	20
22								34	10
23								45	21
24		.1	.1					42	29
25								30	0
26								2	-15
27								-2	-16
28								1	-22
29								6	-19
30								12	-12
31								31	-7
Total	0.5	0.5	0.5					27.0	3.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
February 1980

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1	0.1							37	7
2								43	31
3								44	20
4								41	32
5								38	18
6								41	16
7								38	16
8								36	5
9								39	19
10								33	13
11								28	0
12								24	9
13			0.1					20	12
14								13	-2
15								7	3
16								23	-19
17								44	-13
18			.1					51	19
19								49	25
20	.1	0.2	.2					49	29
21	.1	.1	.1					36	27
22								31	22
23								37	18
24								36	16
25								46	5
26								48	29
27								61	31
28		.1						61	16
29								17	-3
30									
31									
Total	0.3	0.4	0.5					36.9	13.8

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
March 1980

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.1							31	-6
2								47	13
3		0.1						39	12
4								13	-2
5								16	-10
6								25	9
7								35	2
8								38	6
9		.1						40	25
10	.1							35	6
11								50	23
12								34	27
13								45	21
14								54	28
15								52	32
16								35	4
17								44	20
18								49	24
19								52	29
20								43	22
21								46	25
22								43	25
23								53	22
24								43	25
25								40	25
26			0.1					41	25
27								51	22
28	.1							48	29
29								54	20
30								53	28
31		0.1						40	28
Total	0.3	0.3	0.1					41.6	18.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
April 1980

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1	0.1	0.1	0.1					39	32
2	.1							46	31
3	.1								
4								56	
5								65	30
6	.1	.2	.1					54	30
7								45	28
8								49	25
9								61	23
10	.2	.2	.3					58	35
11									
12			.1					50	28
13								59	23
14								70	31
15	.1	.2	.1					67	39
16								66	37
17								73	31
18								78	36
19								81	37
20								87	39
21								87	49
22								86	44
23								66	40
24								69	40
25								64	31
26								64	32
27								67	33
28								77	41
29								79	51
30								78	50
31									
Total	0.7	0.7	0.7					65.8	35.0

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
May 1980

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	Inches							°F	
1							NR	76	42
2							.31	76	42
3							.36	79	43
4							.43	76	46
5							.29	74	39
6							.43	73	42
7							.26	58	36
8							.38	69	29
9							.19	73	46
10							.26	68	44
11							.24	63	34
12							.29	61	41
13							.29	61	34
14							.26	67	32
15							.31	71	40
16							.38	71	44
17							.19	70	40
18							.29	77	42
19							.36	78	51
20							.34	83	59
21							.53	93	55
22							.62	97	65
23							.62	95	62
24							.58	87	59
25							.79	81	50
26							.62	76	49
27							.36	88	41
28	0.1*		0.1*		0.01		.38	82	53
29	.1						NR	77	39
30	.2*	0.2	.2*				NR	65	44
31							NR	66	44
Total	0.4	0.2*	0.3		0.01			75.2	44.7

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
June 1980

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							NR	73	39
2							NR	78	47
3							.50	88	51
4							.38	87	50
5	0.1	0.1*	0.1				.31	84	50
6	.9*	.8*	.8*	0.17			NR	73	50
7							NR	60	45
8							NR	70	41
9							NR	79	40
10	.9*	.5*	.6*	.45			NR	87	55
11							NR	91	62
12							NR	92	51
13							.29	83	53
14	.4*	.2*	.6*				NR	81	54
15	.2*	.6*	.1*	.06	0.03		NR	73	53
16							NR	74	43
17							.38	82	48
18			.1				.24	85	52
19	.3*	.2*	.3*	.09			NR	75	52
20							NR	81	51
21		.1*					.26	84	57
22							.31	91	54
23							.70	93	66
24							.34	87	44
25							.36	89	53
26							.62	89	61
27							.62	81	50
28							.82	74	49
29							.26	92	52
30							.67	92	64
31									
Total	2.8	2.5	2.6	0.77	0.03			82.3	51.2

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
July 1980

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							.38	83	48
2							.34	88	60
3							.55	89	62
4							.38	89	55
5							.55	96	56
6							.46	96	60
7							.60	94	57
8							.29	84	63
9							.48	91	53
10							.60	102	58
11							.62	101	57
12							.53	91	67
13							.46	88	59
14			0.1				NR	89	49
15							.41	81	58
16							.26	87	45
17	0.1	0.1	.1				.48	87	60
18							NR	82	47
19							.67	83	60
20							.46	81	50
21							.34	85	45
22							.43	95	59
23							.62	102	67
24							.52	102	62
25							.36	83	56
26							.38	91	59
27							.62	91	58
28							.50	96	56
29							.60	100	63
30							.19	94	48
31							.41	91	59
Total	0.1	0.1	0.2					90.7	56.6

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
August 1980

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1								90	61
2								88	53
3		0.1*						78	52
4	0.1							69	44
5								87	40
6								87	63
7								86	56
8			0.1					78	44
9								86	57
10								83	55
11								84	45
12	.1	.2*						83	56
13								77	53
14								78	55
15	.2*	.3*	.2*					77	59
16	.9*	1.1*	.8*	0.23				59	54
17								81	48
18								93	58
19								90	53
20								75	54
21								79	43
22								78	52
23	.2*	.2*	.4*	.03				82	49
24								89	59
25								88	47
26	.1*	.1*	.1*					64	47
27	.2*	.1*	.3*	.01				79	45
28								81	48
29								73	54
30		.1*						73	
31		.1	.1					65	47
Total	1.9	2.3	2.0	0.27				80.0	51.7

Note: Blank spaces indicate no data.  
NR indicates no record.

Table 1. Daily rainfall, runoff, pan evaporation, and temperature,  
September 1980

Day	Precipitation			Runoff			Pan Evap.	Temperature	
	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3		Max.	Min.
	----- Inches -----							-- °F --	
1							NR	68	36
2							.31	83	47
3							.38	83	52
4							.34	78	40
5							.26	87	41
6							.36	93	50
7							.65	98	67
8							.26	92	47
9							.24	71	29
10							.17	81	48
11							.19	77	52
12	0.1*	0.1	0.1*				NR	71	50
13							.14	66	39
14							.19	71	51
15							.17	62	44
16							.12	58	35
17							.38	73	49
18							.22	72	45
19							.24	69	47
20							.26	76	40
21			.1				.14	65	45
22							.12	59	29
23							.24	61	37
24							.19	58	30
25							.14	59	22
26							.22	69	35
27							.24	73	47
28							.46	87	49
29							.41	80	46
30							.46	85	45
31									
Total	0.1	0.1	0.2					74.4	43.1

Note: Blank spaces indicate no data.  
NR indicates no record.



## INTRODUCTION

Table 2. Individual Storm Rainfall/Runoff Record.

Table 2 lists rainfall and associated runoff for selected storms with single-peak hydrographs for nonfurrowed watersheds on each site. There are records for each year of the 1969-1980 period except 1979, a drought year during which no rainfall/runoff was recorded. Both storm and antecedent rainfall records are unadjusted data from the recording rain gage nearest the watershed. The precipitation adjustment factor was determined from a special gage arrangement on sites 1 and 2. A normally exposed-recording rain gage with its orifice 40 inches above the ground surface was located near a recording rain gage placed in a pit with its orifice at ground level. These gages were used to determine the difference between the catch in normally exposed gages and the amount of rain that actually reached the ground surface. These data were used to adjust rainfall totals on a storm-by-storm basis by first calculating the ratio between the pit gage and the surface gage catch and then multiplying the catch in all other surface gages in the rain gage network by this ratio. The adjusted data approximate the actual precipitation input during the storm. Antecedent rainfall is that which occurred two hours or more prior to the start of runoff. Sediment data, where available, is expressed in parts per million (PPM) by weight for runoff samples collected during the storm. A few events with double-peak hydrographs are included to provide samples of different storms.



Table 2

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 14

July 23, 1969

Antecedent

Rainfall

Runoff

0.0 - 1 day - 0.00

0.0 - 2 days - 0.00

1.0 - 5 days - 0.16

Total Runoff: 0.60 inches

Ppt. Adj. Factor: 1.10

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/23							
1240	.1	.004		1330		.016	
45	.1	.020		35		.016	
50	.4	.151		40		.016	
55	.4	2.528		45		.016	
1300		4.104		50		.016	
05		3.824		55		.016	
10		2.474		1400		.016	
15		1.161		05		.016	
20		.241		10		.012	
25		.042					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 15

July 23, 1969

Antecedent		
Rainfall		Runoff
0.0	- 1 day -	0.00
0.0	- 2 days -	0.00
0.9	- 5 days -	0.05

Total Runoff: 0.34 inches

Ppt. Adj. Factor: 1.10

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/23							
1225	.1			1345		.012	
30				50		.012	
35				55		.012	
40				1400		.012	
45	.1	.002		05		.012	
50	.4	.241		10		.012	
55	.4	2.314		15		.012	
1300		2.928		20		.012	
05		2.061		25		.012	
10		.368		30		.012	
15		.129		35		.012	
20		.042		40		.012	
25		.012		45		.012	
30		.012		50		.012	
35		.012		55		.012	
40		.012		1500		.009	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

July 15, 1969

Antecedent  
Rainfall

0.2	- 1 day	- 0.00
0.2	- 2 days	- 0.00
0.2	- 5 days	- 0.00

Total Runoff: 0.47 inches

Ppt. Adj. Factor: Not available

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/15							
1540	.2	.000		1620		.793	
45	.9	.004		25		.441	
50	.1	1.446		30		.187	
55		1.965		35		.061	
1600	.1	2.013		40		.020	
05		1.824		45		.009	
10		1.478		50		.006	
15		1.127		55		.006	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 23

July 15, 1969

Antecedent			
Rainfall		Runoff	
0.2	- 1 day	- 0.00	Total Runoff: 0.36 inches
0.2	- 2 days	- 0.00	Ppt. Adj. Factor: Not available
0.2	- 5 days	- 0.00	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/15							
1540	.2			1645		.187	
45	.9	.000		50		.129	
50	.1	.564		55		.099	
55		.968		1700		.077	
1600	.1	1.094		05		.054	
05		1.094		10		.042	
10		.998		15		.030	
15		.878		20		.025	
20		.738		25		.025	
25		.611		30		.020	
30		.480		35		.016	
35		.368		40		.012	
40		.270		45		.009	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

July 15, 1969

Antecedent			
Rainfall		Runoff	
0.2	- 1 day	- 0.00	Total Runoff: 0.39 inches
0.2	- 2 days	- 0.00	Ppt. Adj. Factor: Not available
0.2	- 5 days	- 0.00	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/15							
1540	.2			1750		.030	
45	.7	.000		55		.025	
50		.386		1800		.025	
55		.849		05		.020	
1600		.968		10		.020	
05		.968		15		.016	
10		.878		20		.016	
15		.793		25		.012	
20		.712		30		.012	
25		.635		35		.012	
30		.541		40		.012	
35		.441		45		.009	
40		.368		50		.009	
45		.301		55		.009	
50		.270		1900		.009	
55		.227		05		.006	
1700		.187		10		.006	
05		.140		15		.006	
10		.108		20		.006	
15		.093		25		.006	
20		.077		30		.006	
25		.061		35		.006	
30		.054		40		.006	
35		.048		45		.006	
40		.042		50		.004	
45		.036					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 32

July 16-17, 1969

Antecedent			
Rainfall		Runoff	
0.7	- 1 day	- 0.01	Total Runoff: 0.10 inches
0.9	- 2 days	- 0.01	Ppt. Adj. Factor: 1.0
0.9	- 5 days	- 0.01	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/16							
1825	.1			2125		.030	
30				30		.025	
35				35		.025	
40	.1			40		.025	
45	.1	.004		45		.025	
50		.025		50		.020	
55		.025		55		.020	
1900		.042		2200		.020	
05	.1	.048		05		.020	
10		.042		10		.016	
15		.036		15		.016	
20		.036		20		.016	
25		.042		25		.016	
30		.042		30		.016	
35		.042		35		.016	
40		.061		40		.012	
45	.1	.069		45		.012	
50		.077		50		.012	
55		.077		55		.012	
2000		.077		2300		.012	
05		.077		05		.012	
10		.069		10		.012	
15		.061		15		.012	
20		.061		20		.012	
25		.054		25		.012	
30		.054		30		.012	
35		.048		35		.012	
40		.048		40		.012	
45		.048		45		.012	
50		.042		50		.012	
55		.042		55		.012	
2100		.042		7/17			
05		.036		0000		.012	
10		.036		05		.012	
15		.030		10		.012	
20		.030		15		.012	

Table 2. INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 32  
 July 17, 1969  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0020		.012		0150		.012	
25		.012		55		.012	
30		.012		0200		.012	
35		.012		05		.012	
40		.012		10		.012	
45		.012		15		.012	
50		.012		20		.012	
55		.012		25		.012	
0100		.012		30		.012	
05		.012		35		.012	
10		.012		40		.012	
15		.012		45		.012	
20		.012		50		.012	
25		.012		55		.012	
30		.012		0300		.012	
35		.012		05		.012	
40		.012		10		.009	
45		.012					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 33

July 16, 1969

Antecedent

Rainfall      Runoff

0.7 - 1 day - 0.005

0.9 - 2 days - 0.005

0.9 - 5 days - 0.005

Total Runoff: 0.06 inches

Ppt. Adj. Factor: 1.0

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/16							
1825	.1			2035		.054	
30				40		.048	
35				45		.042	
40	.1			50		.036	
45	.1			55		.036	
50		.004		2100		.030	
55		.004		05		.030	
1900		.016		10		.025	
05	.1	.016		15		.025	
10		.016		20		.020	
15		.016		25		.020	
20		.016		30		.020	
25		.020		35		.016	
30		.025		40		.016	
35		.025		45		.016	
40		.036		50		.012	
45	.1	.048		55		.012	
50		.061		2200		.012	
55		.069		05		.012	
2000		.077		10		.009	
05		.077		15		.009	
10		.069		20		.009	
15		.069		25		.009	
20		.069		30		.009	
25		.061		35		.006	
30		.054					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 13

May 7, 1970

Antecedent  
Rainfall      Runoff  
0.0 - 1 day - 0.0  
0.0 - 2 days - 0.0  
0.1 - 5 days - 0.0

Total Runoff: 0.80 inches

Ppt. Adj. Factor: 1.24

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1635	.1			1850		.541	
40				55		.500	
45				1900		.461	
50	.1			05		.404	
55				10		.368	
1700	.1			15		.318	
05				20		.286	
10	.1			25		.241	
15				30		.213	
20	.1			35		.187	
25				40		.151	
30	.1	.077		45		.129	
35	.1	.422		50		.108	
40	.1	.541		55		.093	
45	.4	.564		2000		.077	
50	.4	.765		05		.061	
55	.3	1.409		10		.048	
1800	.1	1.603		15		.042	
05	.1	1.603		20		.036	
10		1.478		25		.036	
15		1.299		30		.036	
20		1.127		35		.036	
25		.998		40		.036	
30		.849		45		.036	
35		.765		50		.036	
40		.660		55		.036	
45		.587		2100		.030	

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 15  
May 7, 1970

Antecedent  
Rainfall      Runoff  
0.0   - 1 day - 0.0  
0.0   - 2 days - 0.0  
0.0   - 5 days - 0.0

Total Runoff: 1.23 inches  
Ppt. Adj. Factor: 1.24

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1635	.1			1820		.175	
40				25		.077	
45				30		.030	
50	.1			35		.030	
55				40		.030	
1700	.1			45		.030	
05		.000		50		.025	
10	.1	.077		55		.025	
15		.099		1900		.025	
20	.1	.187		05		.025	
25	.1	.270		10		.025	
30	.1	.564		15		.025	
35	.1	.878		20		.025	
40	.3	1.871		25		.025	
45	.5	3.963		30		.025	
50	.3	5.585		35		.025	
55	.2	5.756		40		.025	
1800		4.621		45		.025	
05		3.233		50		.025	
10		1.478		55		.025	
15		.351		2000		.020	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 21

May 7, 1970

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: 0.22 inches
0.0	- 2 days	- 0.0	Ppt. Adj. Factor: 1.30
0.0	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1650	.1			1925		.151	
55				30		.140	
1700				35		.118	
05	.1			40		.108	
10	.1			45		.099	
15				50		.093	
20	.1			55		.085	
25	.1			2000		.077	
30	.1			05		.069	
35	.1			10		.061	
40	.1			15		.061	
45	.1	.006		20		.054	
50	.2	.030		25		.048	
55	.5	.099		30		.048	
1800		.140		35		.042	
05	.5	.151		40		.042	
10	.1	.129		45		.042	
15		.093		50		.036	
20		.069		55		.036	
25		.108		2100		.036	
30		.270		05		.030	
35		.386		10		.030	
40		.422		15		.030	
45		.404		20		.030	
50		.368		25		.025	
55		.318		30		.025	
1900		.286		35		.025	
05		.241		40		.025	
10	.1	.213		45		.020	
15		.187		50		.020	
20		.162		55		.020	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

May 7, 1970

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: *1.52 inches
0.0	- 2 days	- 0.0	Ppt. Adj. Factor: 1.30
0.0	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1645				1800		4.321	
50	.1			05	.5	4.853	
55				10	.1	4.697	
1700				15		4.033	
05	.1			20		3.489	
10	.1			25		2.869	
15				30		2.211	
20	.1	.006		35		1.690	
25	.1	.025		40		1.229	
30	.1	.061		45		.820	
35	.1	.118		50		.404	
40	.1	.241		55		.301	
45	.1	.635		1900		.301	
50	.2	1.478		05		.301	
55	.5	3.048		10		.301	

\*Accumulation calculated on period 1720-1855. Gage trails at 0.301 cubic feet per second due to a sticking float.

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 23  
May 7, 1970

Antecedent			
Rainfall		Runoff	
0.0	- 1 day -	0.0	Total Runoff: 1.24 inches
0.0	- 2 days -	0.0	Ppt. Adj. Factor: 1.30
0.0	- 5 days -	0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1650	.1			1830		2.013	
55				35		1.646	
1700				40		1.335	
05	.1			45		1.062	
10	.1			50		.765	
15				55		.461	
20	.1			1900		.241	
25	.1			05		.129	
30	.1			10	.1	.085	
35	.1			15		.061	
40	.1	.004		20		.042	
45	.1	.077		25		.030	
50	.2	.968		30		.025	
55	.5	2.061		35		.025	
1800		3.109		40		.025	
05	.5	3.554		45		.025	
10	.1	3.621		50		.020	
15		3.233		55		.020	
20		2.810		2000		.020	
25		2.420		05		.016	

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 24  
May 7, 1970

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: 0.07 inches
0.0	- 2 days	- 0.0	Ppt. Adj. Factor: 1.30
0.0	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1640	.1			1830		.077	
45				35		.061	
50				40		.054	
55				45		.042	
1700	.1			50		.036	
05	.1			55		.036	
10				1900		.030	
15	.1			05		.030	
20	.1			10		.030	
25	.2			15		.030	
30				20		.030	
35	.1			25		.030	
40	.1			30		.030	
45	.5			35		.030	
50	.5	.006		40		.030	
55	.2	.006		45		.030	
1800	.1	.140		50		.030	
05	.1	.175		55		.030	
10		.162		2000		.030	
15		.140		05		.030	
20		.118		10		.030	
25		.099		15		.025	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 25

May 7-8, 1970

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: 0.43 inches
0.0	- 2 days	- 0.0	Ppt. Adj. Factor: 1.30
0.0	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1640	.1			1940		.151	
45				45		.140	
50				50		.140	
55				55		.129	
1700	.1			2000		.129	
05	.1			05		.118	
10				10		.118	
15	.1			15		.108	
20	.1			20		.108	
25	.2			25		.099	
30				30		.099	
35	.1			35		.093	
40	.1			40		.093	
45	.5	.006		45		.093	
50	.5	.030		50		.085	
55	.2	.093		55		.085	
1800	.1	.368		2100		.085	
05	.1	.351		05		.085	
10		.351		10		.085	
15		.334		15		.077	
20		.318		20		.077	
25		.301		25		.077	
30		.286		30		.077	
35		.270		35		.077	
40		.256		40		.069	
45		.241		45		.069	
50		.227		50		.069	
55		.227		55		.069	
1900		.213		2200		.069	
05		.200		05		.069	
10		.187		10		.069	
15		.187		15		.061	
20		.175		20		.061	
25		.175		25		.061	
30		.162		30		.061	
35		.151		35		.061	

# INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 25

May 7-8, 1970

(Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
2240		.061		5/8			
45		.061		0000		.048	
50		.061		05		.048	
55		.061		10		.048	
2300		.054		15		.048	
05		.054		20		.042	
10		.054		25		.042	
15		.054		30		.042	
20		.054		35		.042	
25		.054		40		.042	
30		.048		45		.042	
35		.048		50		.042	
40		.048		55		.042	
45		.048		0100		.042	
50		.048		05		.042	
55		.048		10		.036	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

May 7, 1970

Antecedent  
Rainfall                  Runoff  
0.0    - 1 day    - 0.0  
0.0    - 2 days   - 0.0  
0.0    - 5 days   - 0.0

Total Runoff: 1.35 inches

Ppt. Adj. Factor: 1.30

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1640	.1			1830		1.965	
45				35		1.561	
50				40		1.229	
55	.1			45		.907	
1700				50		.611	
05	.1			55		.422	
10				1900		.270	
15	.1			05		.187	
20				10		.118	
25	.2			15		.093	
30	.2	.000		20		.077	
35		.025		25		.054	
40	.1	.093		30		.048	
45	.1	.386		35		.036	
50	.6	1.646		40		.025	
55	.2	2.810		45		.020	
1800	.3	3.688		50		.016	
05	.1	3.963		55		.012	
10		3.756		2000		.009	
15		3.359		05		.009	
20		2.928		10		.006	
25		2.420					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 33

May 7, 1970

Antecedent  
Rainfall      Runoff  
0.1    - 1 day    - 0.0  
0.1    - 2 days   - 0.0  
0.2    - 5 days   - 0.0

Total Runoff: 0.71 inches

Ppt. Adj. Factor: 1.24

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1720	.1			1840		.318	
25				45		.256	
30	.1			50		.200	
35				55		.162	
40	.2	.006		1900		.140	
45	.3	.480		05		.118	
50	.5	1.229		10		.099	
55		2.161		15		.093	
1800	.1	2.583		20		.077	
05	.1	2.367		25		.069	
10		1.965		30		.061	
15		1.519		35		.054	
20		1.127		40		.054	
25		.793		45		.054	
30		.541		50		.054	
35		.404		55		.054	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 35

May 7, 1970

Antecedent  
Rainfall      Runoff  
0.0   - 1 day   - 0  
0.0   - 2 days   - 0  
0.1   - 5 days   - 0

Total Runoff: 0.47

Ppt. Adj. Factor: 1.24

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1700	.1			1820		.712	
05				25		.521	
10				30		.386	
15				35		.270	
20				40		.200	
25	.1			45		.162	
30	.1			50		.118	
35	.1			55		.093	
40	.3	.009		1900		.069	
45	.5	.213		05		.054	
50	.1	.937		10		.036	
55	.1	1.478		15		.030	
1800	.1	1.824		20		.025	
05		1.779		25		.020	
10		1.409		30		.016	
15		1.030					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 36

May 7, 1970

Antecedent  
Rainfall      Runoff  
0.0 - 1 day - 0.0  
0.0 - 2 days - 0.0  
0.1 - 5 days - 0.0

Total Runoff: .07

Ppt. Adj. Factor: 1.24

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/7							
1700	.1			1920		.061	
05				25		.061	
10				30		.061	
15				35		.061	
20				40		.054	
25	.1			45		.054	
30	.1			50		.054	
35	.1			55		.048	
40	.3			2000		.048	
45	.5			05		.048	
50	.1			10		.042	
55	.1			15		.042	
1800	.1			20		.042	
05				25		.042	
10		.000		30		.036	
15		.036		35		.036	
20		.030		40		.036	
25		.025		45		.030	
30		.025		50		.030	
35		.020		55		.030	
40		.020		2100		.030	
45		.020		05		.030	
50		.025		10		.025	
55		.030		15		.025	
1900		.042		20		.025	
05		.048		25		.025	
10		.054		30		.025	
15		.061		35		.020	

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 13  
June 16-17, 1971

Antecedent			
Rainfall		Runoff	
1.0	- 1 day -	0.16	Total Runoff: .18 inches
1.0	- 2 days -	0.16	Ppt. Adj. Factor: 1.75
1.0	- 5 days -	0.16	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16							
2205	.3			0045		.099	
10				50		.099	
15	.1			55		.093	
20		.016		0100		.093	
25		.030		05		.085	
30		.036		10		.085	
35		.042		15		.077	
40		.048		20		.077	
45		.048		25		.077	
50		.054		30		.069	
55		.054		35		.069	
2300		.054		40		.061	
05		.054		45		.061	
10		.061		50		.061	
15		.069		55		.061	
20		.077		0200		.054	
25		.093		05		.054	
30		.099		10		.054	
35		.108		15		.048	
40		.118		20		.048	
45		.118		25		.048	
50		.129		30		.042	
55		.140		35		.042	
6/17				40		.042	
0000		.140		45		.036	
05		.140		50		.036	
10		.140		55		.036	
15		.129		0300		.036	
20		.129		05		.030	
25		.118		10		.030	
30		.118		15		.030	
35		.108		20		.025	
40		.108					

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 14  
June 16-17, 1971

Antecedent			
Rainfall		Runoff	
0.9	- 1 day -	0.66	Total Runoff: *0.28 inches Ppt. Adj. Factor: 1.75
0.9	- 2 days -	0.66	
0.9	- 5 days -	0.66	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16							
2200		.009		2330		.012	
05	.3	.012		35		.012	
10	.1	.441		40		.012	
15		1.127		45		.012	
20		1.335		50		.012	
25		1.127		55	.1	.012	
30		.820		6/17			
35		.461		0000		.077	
40		.270		05		.108	
45		.118		10		.129	
50		.069		15		.118	
55		.042		20		.085	
2300		.025		25		.061	
05		.016		30		.036	
10		.012		35		.025	
15		.012		40		.016	
20		.012		45		.012	
25		.012					

\*Two separate events runoff amounts:

2200-2310 = .25 inches

2355-0045 = .03 inches

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 15  
June 16-17, 1971

Antecedent			
Rainfall		Runoff	
0.9	- 1 day	- 0.65	Total Runoff: *0.26 inches Ppt. Adj. Factor: 1.75
0.9	- 2 days	- 0.65	
0.9	- 5 days	- 0.65	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16				6/17			
2200		.009		0000		.048	
05	.3	.012		05		.069	8,741
10	.1	.351	22,769	10		.069	
15		.849		15		.061	5,980
20		.937	8,819	20		.061	
25		.937		25		.048	5,356
30		.738	7,266	30		.042	
35		.500		35		.036	4,087
40		.351		40		.030	
45		.241		45		.030	
50		.162	3,726	50		.025	
55		.108		55		.025	
2300		.077	2,680	0100		.025	
05		.054		05		.025	
10		.042	2,234	10		.025	
15		.036		15		.025	
20		.030	1,786	20		.025	
25		.025		25		.025	
30		.025		30		.025	
35		.025		35		.025	
40		.025		40		.025	
45		.025		45		.020	
50		.025					
55	.1	.030					

\*Two separate events runoff amounts:

2200-2345 = .23 inch

2350-0145 = .03 inch

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

June 16, 1971

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: 0.45 inches
0.0	- 2 days	- 0.0	Ppt. Adj. Factor: 1.18
0.0	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16							
0330	.1			0615		.256	1,225
35	.1			20		.187	
40	.1			25		.162	1,088
45				30		.140	
50				35		.108	1,025
55				40		.085	
0400				45		.061	
05				50		.054	944
10				55		.042	
15				0700		.036	872
20				05		.030	
25				10		.025	1,584
30				15		.020	
35				20		.020	1,710
40				25		.020	
45				30		.020	
50				35		.020	1,480
55				40		.020	
0500				45		.016	1,454
05				50		.016	
10		.004		55		.016	
15	.5	.036		0800		.016	
20	.1	.351	9,011	05		.012	
25		.793		10		.012	
30	.1	1.161		15		.012	857
35		1.335	2,920	20		.012	
40	.1	1.299		25		.012	796
45		1.161	2,204	30		.012	
50		.998		35		.012	598
55		.793	1,790	40		.012	
0600		.611		45		.012	
05		.441	1,424	50		.012	
10		.334		55		.012	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 23

June 16, 1971

Antecedent  
Rainfall                  Runoff  
0.0 - 1 day - 0.0  
0.0 - 2 days - 0.0  
0.0 - 5 days - 0.0

Total Runoff: 0.44 inches

Ppt. Adj. Factor: 1.18

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16							
0330	.1			0630		.334	710
35	.1			35		.270	
40	.1			40		.227	619
45				45		.200	
50				50		.187	578
55				55		.108	
0400				0700		.085	587
05				05		.077	
10				10		.069	548
15				15		.054	
20				20		.048	
25				25		.048	570
30				30		.042	
35				35		.036	523
40				40		.036	
45				45		.030	481
50				50		.030	
55				55		.030	434
0500				0800		.030	
05				05		.030	433
10		.009		10		.030	
15	.5	.020	1,952	15		.025	
20	.1	.020		20		.025	472
25		.187	1,114	25		.025	
30	.1	.461		30		.025	408
35		.712	1,280	35		.025	
40	.1	.878		40		.025	412
45		.937	1,320	45		.020	
50		.937		50		.020	502
55		.878	1,173	55		.020	
0600		.820		0900		.020	499
05		.712	870	05		.020	
10		.635		10		.020	475
15		.541		15		.020	
20		.461	768	20		.020	
25		.404		25		.020	486

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 23  
 June 16, 1971  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0930		.020		0945		.020	507
35		.020	561	50		.020	
40		.020		55		.020	416

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

June 16, 1971

Antecedent							
Rainfall		Runoff					
0.0	- 1 day	-	0.0	Total Runoff: 0.48 inches			
0.0	- 2 days	-	0.0	Ppt. Adj. Factor: 1.18			
0.0	- 5 days	-	0.0				
Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16							
0325	.1			0625		.318	389
30	.1			30		.256	
35	.2			35		.213	390
40				40		.162	
45				45		.118	468
50				50		.099	
55				55		.085	404
0400				0700		.077	
05				05		.069	292
10				10		.061	
15				15		.054	319
20				20		.048	
25				25		.042	385
30				30		.042	
35				35		.036	
40				40		.036	275
45				45		.030	
50				50		.030	258
55				55		.025	
0500				0800		.025	280
05				05		.025	
10	.1			10		.020	288
15	.5	.004		15		.020	
20	.2	.042	2,053	20		.020	285
25		.480		25		.016	
30		.793	504	30		.016	357
35	.1	1.030		35		.016	
40		1.127	536	40		.016	284
45		1.161		45		.016	
50		1.094	571	50		.012	
55		.968		55		.012	
0600		.820		0900		.012	
05		.660	562	05		.012	
10		.587		10		.012	
15		.480	502	15		.012	
20		.386		20		.009	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 31

June 16, 1971

Antecedent  
Rainfall      Runoff

0.0 - 1 day - 0.0

0.0 - 2 days - 0.0

0.1 - 5 days - 0.0

Total Runoff: 0.43 inches

Ppt. Adj. Factor: 1.27

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16							
0340	.1			0640		.175	
45				45		.162	1,182
50				50		.162	
55				55		.151	1,249
0400				0700		.151	
05				05		.140	1,226
10				10		.140	
15				15		.151	
20				20		.151	
25	.1			25		.140	1,306
30				30		.140	
35				35		.140	1,249
40				40		.129	
45				45		.129	1,246
50				50		.118	
55				55		.118	1,268
0500				0800		.108	
05				05		.108	1,276
10				10		.099	
15				15		.099	1,223
20	.5	.036		20		.099	
25	.2	.042	1,846	25		.093	
30	.1	.061		30		.093	
35		.085		35		.093	1,196
40	.1	.099		40		.085	
45		.129		45		.085	1,020
50		.140		50		.085	
55		.162	1,060	55		.085	1,146
0600		.175		0900		.085	
05		.187	1,064	05		.077	1,066
10		.187		10		.077	
15	.1	.187	1,108	15		.077	1,127
20		.187		20		.077	
25		.187	1,084	25		.077	1,113
30		.187		30		.069	
35		.187	1,146	35		.069	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 31  
June 16, 1971  
(Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0940		.069		1300			
45		.069	1,084	05		.048	
50		.069		10		.048	
55		.069	1,002	15		.048	
1000		.061		20		.048	
05		.061		25		.048	
10		.061		30		.048	
15		.061		35		.042	
20		.061		40		.042	
25		.061		45		.042	
30		.054		50		.042	
35		.054		55		.042	
40		.054		1400		.042	
45		.054		05		.042	
50		.054		10		.042	
55		.054		15		.042	
1100		.054		20		.042	
05		.054		25		.042	
10		.054		30		.042	
15		.054		35		.042	
20		.054		40		.042	
25		.054		45		.042	
30		.054		50		.042	
35		.054		55		.042	
40		.054		1500		.042	
45		.054		05		.042	
50		.054		10		.042	
55		.054		15		.042	
1200		.048		20		.042	
05		.048		25		.042	
10		.048		30		.042	
15		.048		35		.042	
20		.048		40		.042	
25		.048		45		.042	
30		.048		50		.042	
35		.048		55		.042	
40		.048		1600		.042	
45		.048		05		.042	
50		.048		10		.036	
55		.048					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 32

June 16, 1971

Antecedent  
Rainfall                  Runoff  
0.0 - 1 day - 0.0  
0.0 - 2 days - 0.0  
0.1 - 5 days - 0.0

Total Runoff: 0.33 inches

Ppt. Adj. Factor: 1.27

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16							
0340	.1			0630		.301	
45				35		.270	
50	.1			40		.227	
55				45		.200	
0400				50		.200	
05				55		.200	
10				0700		.140	
15				05		.129	
20				10		.118	
25				15		.129	
30				20		.162	
35				25		.162	
40				30		.162	
45				35		.151	
50				40		.140	
55				45		.129	
0500				50		.069	
05				55		.061	
10				0800		.061	
15		.016		05		.048	
20	.4	.099		10		.048	
25	.3	.108		15		.042	
30	.1	.108		20		.042	
35		.162		25		.036	
40	.1	.270		30		.036	
45		.270		35		.030	
50		.301		40		.030	
55		.351		45		.030	
0600		.422		50		.030	
05		.441		55		.030	
10		.441		0900		.030	
15		.422		05		.030	
20		.386		10		.025	
25		.334					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 33

June 16, 1971

Antecedent			
Rainfall		Runoff	
0.0	- 1 day -	0.0	Total Runoff: 0.37 inches
0.0	- 2 days -	0.0	Ppt. Adj. Factor: 1.27
0.1	- 5 days -	0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16							
0340	.1			0640		.286	
45				45		.256	
50	.1			50		.227	
55				55		.200	
0400				0700		.187	
05				05		.162	
10				10		.151	
15				15		.140	
20				20		.129	
25				25		.118	
30				30		.108	
35				35		.099	
40				40		.099	
45				45		.093	
50				50		.093	
55				55		.085	
0500				0800		.085	
05				05		.077	
10				10		.077	
15				15		.069	
20	.4			20		.069	
25	.3	.025		25		.069	
30	.1	.054		30		.061	
35		.151		35		.061	
40	.1	.227		40		.061	
45		.301		45		.054	
50		.351		50		.054	
55		.386		55		.054	
0600		.461		0900		.054	
05		.521		05		.048	
10		.521		10		.048	
15		.500		15		.048	
20		.461		20		.048	
25		.422		25		.042	
30		.368		30		.042	
35		.334		35		.042	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 33  
 June 16, 1971  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0940		.042		1010		.036	
45		.036		15		.030	
50		.036		20		.030	
55		.036		25		.030	
1000		.036		30		.025	
05		.036					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 34  
June 16-17, 1971

Antecedent			
Rainfall		Runoff	
1.1	- 1 day	- 0.03	Total Runoff: 0.05 inches
1.1	- 2 days	- 0.03	Ppt. Adj. Factor: 1.14
1.2	- 5 days	- 0.03	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16							
2210	.1			0020		.036	
15	.2			25		.036	
20	.2			30		.036	
25	.1			35		.036	
30				40		.036	
35				45		.036	
40				50		.036	
45				55		.036	
50				0100		.036	
55				05		.036	
2300				10		.030	
05		.020		15		.030	
10		.025		20		.030	
15		.030		25		.030	
20		.030		30		.030	
25		.030		35		.030	
30		.036		40		.030	
35		.036		45		.025	
40		.036		50		.025	
45		.036		55		.025	
50		.036		0200		.025	
55		.036		05		.025	
6/17				10		.025	
0000		.036		15		.025	
05		.036		20		.025	
10		.036		25		.020	
15	.1	.036					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 35

June 16, 1971

Antecedent  
Rainfall      Runoff  
0.0 - 1 day - 0.0  
0.0 - 2 days - 0.0  
0.1 - 5 days - 0.0

Total Runoff: 0.16 inches  
Ppt. Adj. Factor: 1.27

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16				0640		.099	
0340	.1			45		.093	
45				50		.085	
50				55		.077	
55				0700		.069	
0400				05		.069	
05	.1			10		.061	
10				15		.054	
15				20		.054	
20				25		.048	
25				30		.042	
30				35		.042	
35				40		.036	
40				45		.036	
45				50		.036	
50				55		.030	
55				0800		.030	
0500				05		.025	
05				10		.025	
10				15		.025	
15				20		.025	
20	.5	.012		25		.020	
25	.2	.061		30		.020	
30	.1	.162		35		.020	
35		.187		40		.020	
40	.1	.187		45		.016	
45		.187		50		.016	
50		.187		55		.016	
55		.187		0900		.016	
0600		.187		05		.016	
05		.187		10		.016	
10		.175		15		.016	
15		.175		20		.016	
20		.162		25		.016	
25		.140		30		.016	
30		.129		35		.016	
35		.118		40		.012	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 36

June 16-17, 1971

Antecedent  
Rainfall      Runoff  
1.1 - 1 day - 0.0  
1.1 - 2 days - 0.0  
1.2 - 5 days - 0.0

Total Runoff: 0.08 inches  
Ppt. Adj. Factor: 1.14

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/16							
2200	.1			0025		.048	
05	.3			30		.048	
10	.1			35		.048	
15	.1			40		.048	
20				45		.048	
25		.000		50		.042	
30		.030		55		.042	
35		.030		0100		.042	
40		.025		05		.042	
45		.025		10		.042	
50		.025		15		.042	
55		.025		20		.036	
2300		.025		25		.036	
05		.025		30		.036	
10		.025		35		.036	
15		.025		40		.036	
20		.025		45		.036	
25		.025		50		.036	
30		.025		55		.036	
35		.025		0200		.030	
40		.025		05		.030	
45		.025		10		.030	
50		.030		15		.030	
55		.036		20		.030	
6/17				25		.030	
0000		.042		30		.030	
05		.048		35		.030	
10		.048		40		.030	
15	.1	.048		45		.030	
20		.048		50		.025	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 14

July 22, 1972

Antecedent  
Rainfall      Runoff  
0.1 - 1 day - 0.0  
0.1 - 2 days - 0.0  
0.5 - 5 days - 0.04

Total Runoff: 0.64 inches

Ppt. Adj. Factor: 1.27

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/22							
0120	.2	.009		0230		.500	
25	.3	.334		35		.351	
30	.2	1.264		40		.200	
35	.1	1.965		45		.099	
40		2.061		50		.061	
45		1.690		55		.042	
50		1.161		0300		.025	
55	.1	.793		05		.020	
0200		.660		10		.016	
05	.1	.712		15		.012	
10		.849		20		.012	
15		.907		25		.012	
20	.1	.878		30		.009	
25		.765					

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 14  
August 2, 1972

Antecedent			
Rainfall		Runoff	
0.2	- 1 day	- 0.0	Total Runoff: 0.12
0.2	- 2 days	- 0.0	Ppt. Adj. Factor: 1.0
0.2	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
8/2							
0950	.1			1115		.085	
55				20		.085	
1000				25	.1	.085	
05		.009		30		.085	
10		.016		35		.093	
15		.061		40		.108	
20		.085		45		.118	
25		.093		50		.108	
30	.1	.118		55		.085	
35		.162		1200		.061	
40		.200		05		.054	
45		.227		10		.042	
50		.227		15		.030	
55		.213		20		.020	
1100		.175		25		.020	
05		.118		30		.016	
10		.093		35		.012	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 15

August 2, 1972

Antecedent			
Rainfall		Runoff	
0.2	- 1 day	- 0.0	Total Runoff: 0.08
0.2	- 2 days	- 0.0	Ppt. Adj. Factor: 1.0
0.2	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
8/2							
0950	.1			1115		.054	
55				20		.048	1453
1000				25	.1	.042	
05				30		.042	1443
10				35		.048	
15		.009		40		.054	1299
20		.020	1818	45		.054	
25		.042		50		.048	1191
30	.1	.061	2251	55		.042	
35		.108		1200		.036	1177
40		.140	1574	05		.030	
45		.151		10		.025	
50		.151	1988	15		.025	
55		.140		20		.025	
1100		.118	1964	25		.025	
05		.085		30		.020	
10		.069	1673				

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

July 22, 1972

Antecedent  
Rainfall      Runoff  
0.1 - 1 day - 0.0  
0.4 - 2 days - 0.0  
0.4 - 5 days - 0.0

Total Runoff: 0.30 inches

Ppt. Adj. Factor: 1.14

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/22							
0120	.4	.002		0245		.099	
25	.5	.093	2513	50		.077	872
30	.2	.635		55		.061	
35	.1	.907	1622	0300		.048	792
40		.937		05		.042	
45		.849	1359	10		.036	
50		.712		15		.030	770
55	.1	.564		20		.025	
0200		.461	1000	25		.020	
05		.386		30		.020	
10	.1	.334	754	35		.020	
15		.286		40		.016	
20		.241	711	45		.016	
25		.187		50		.016	
30		.162	724	55		.016	
35		.151		0400		.012	
40		.129	709				

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 23

July 22, 1972

Antecedent  
Rainfall      Runoff

0.1 - 1 day - 0.0

0.4 - 2 days - 0.0

0.4 - 5 days - 0.0

Total Runoff: 0.25 inches

Ppt. Adj. Factor: 1.14

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/22							
0120	.4			0340		.061	
25	.5			45		.054	504
30	.2	.009		50		.054	
35	.1	.241	654	55		.048	506
40		.301	443	0400		.048	
45		.334	577	05		.042	520
50		.351		10		.042	
55	.1	.334	573	15		.036	558
0200		.334		20		.036	
05		.318	654	25		.030	537
10	.1	.301		30		.030	
15		.286	566	35		.030	575
20		.270		40		.030	
25		.241	607	45		.030	493
30		.227		50		.030	
35		.213	566	55		.030	541
40		.200		0500		.030	
45		.175	606	05		.025	488
50		.151		10		.025	
55		.140	530	15		.025	548
0300		.129		20		.025	
05		.108	573	25		.025	574
10		.099		30		.025	
15		.093	534	35		.025	506
20		.085		40		.025	
25		.077	556	45		.025	517
30		.069		50		.025	
35		.069	542	55		.025	507

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

July 22, 1972

Antecedent  
Rainfall                  Runoff  
0.1 - 1 day - 0.0  
0.1 - 2 days - 0.0  
0.4 - 5 days - 0.0

Total Runoff: 0.18 inches

Ppt. Adj. Factor: 1.14

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/22							
0120	.2			0315		.054	
25	.4			20		.048	
30	.2	.002		25		.042	
35	.1	.129		30		.036	
40		.318		35		.036	
45		.334		40		.030	
50		.334		45		.030	
55	.1	.301		50		.025	
0200	.1	.286		55		.025	
05		.270		0400		.020	
10	.1	.256		05		.020	
15		.227		10		.020	
20		.213		15		.016	
25		.200		20		.016	
30		.162		25		.016	
35		.129		30		.016	
40		.108		35		.012	
45		.093		40		.012	
50		.085		45		.012	
55		.077		50		.012	
0300		.069		55		.012	
05		.061		0500		.009	
10		.061					

Table 2

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 32  
July 22, 1972

Antecedent  
Rainfall      Runoff  
0.1 - 1 day - 0.0  
0.1 - 2 days - 0.0  
0.7 - 5 days - 0.0

Total Runoff: 0.59 inches  
Ppt. Adj. Factor: 1.27

Time	Rainfall	Runoff	Sediment	Time*	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/22							
0125	.4	.006		0415		.069	158
30	.3	.009	1038	20		.069	
35	.3	.441		25		.061	76
40		.564	327	30		.061	
45		.541		35		.061	85
50		.564	253	40		.054	
55		.635		45		.048	113
0200	.1	.686	145	50		.048	
05	.1	.738		55		.048	77
10		.793	116	0500		.042	
15	.1	.793		05		.042	
20		.793	123	10		.036	
25		.738		15		.036	
30		.660	95	20		.030	
35		.587		25		.030	
40		.521		30		.030	
45		.461		35		.030	
50		.404	66	40		.030	
55		.368		45		.025	
0300		.334	59	50		.025	
05		.286		55		.025	
10		.256	58	0600		.025	
15		.227		05		.025	
20		.200	103	10		.025	
25		.200		15		.025	
30		.151	88	20		.025	
35		.140		25		.025	
40		.129	95	30		.025	
45		.118		35		.025	
50		.108		40		.025	
55		.099	86	45		.025	
0400		.093		50		.025	
05		.085	125	55		.009	
10		.085					

Table 2

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 33

July 22, 1972

Antecedent

Rainfall      Runoff

0.1 - 1 day - 0.0

0.1 - 2 days - 0.0

0.8 - 5 days - 0.0

Total Runoff: 0.52 inches

Ppt. Adj. Factor: 1.27

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/22							
0125	.1			0415		.069	
30	.4			20		.069	
35	.3			25		.061	
40	.2	.020		30		.061	
45		.334		35		.054	
50		.461		40		.054	
55		.587		45		.054	
0200	.1	.660		50		.048	
05	.1	.686		55		.048	
10		.686		0500		.048	
15	.1	.686		05		.042	
20		.686		10		.042	
25		.686		15		.042	
30		.660		20		.042	
35		.611		25		.042	
40		.564		30		.042	
45		.521		35		.036	
50		.461		40		.036	
55		.422		45		.036	
0300		.368		50		.036	
05		.318		55		.036	
10		.270		0600		.030	
15		.241		05		.030	
20		.213		10		.030	
25		.187		15		.030	
30		.162		20		.030	
35		.140		25		.030	
40		.129		30		.030	
45		.108		35		.030	
50		.099		40		.030	
55		.093		45		.030	
0400		.093		50		.030	
05		.085		55		.030	
10		.077		0700		.025	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 35

July 22, 1972

Antecedent			
Rainfall		Runoff	
0.1	- 1 day	- 0.0	Total Runoff: 0.09 inches
0.1	- 2 days	- 0.0	Ppt. Adj. Factor: 1.27
1.0	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/22							
0125	.4			0155		.404	
30	.3			0200	.1	.368	
35	.2			05		.334	
40	.1	.009		10	.1	.286	
45		.500		15		.241	
50		.461		20	.1	.012	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 13

June 2, 1973

Antecedent  
Rainfall      Runoff  
0.5 - 1 day - 0.0  
0.5 - 2 days - 0.0  
0.5 - 5 days - 0.0

Total Runoff: 0.12

Ppt. Adj. Factor: Not available

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/2							
1120	.1			1405		.093	
25				10		.093	
30				15		.093	
35				20		.093	
40				25		.093	
45	.1			30		.093	
50				35		.093	
55				40		.085	
1200				45		.085	
05				50		.077	
10				55		.069	
15				1500		.069	
20				05		.061	
25				10		.061	
30	.1			15		.061	
35				20		.054	
40				25		.054	
45				30		.054	
50				35		.048	
55				40		.048	
1300				45		.048	
05	.1	.020		50		.042	
10		.042		55		.042	
15		.054		1600		.042	
20		.061		05		.042	
25		.061		10		.036	
30		.069		15		.036	
35		.069		20		.036	
40		.077		25		.036	
45		.077		30		.036	
50		.077		35		.036	
55		.085		40		.036	
1400		.085		45		.030	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 14

June 2, 1973

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: 0.05
0.0	- 2 days	- 0.0	Ppt. Adj. Factor: Not available
0.1	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/2							
0445	.1			0545		.099	
50	.1	.004		50		.085	
55		.016		55		.077	
0500	.1	.069		0600		.077	
05		.061		05		.077	
10		.061		10		.061	
15		.061		15		.042	
20		.069		20		.030	
25		.085		25		.016	
30	.1	.099		30		.012	
35		.118		35		.009	
40		.118		40		.006	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 15

June 2, 1973

Antecedent  
Rainfall      Runoff  
0.0 - 1 day - 0.0  
0.0 - 2 days - 0.0  
0.1 - 5 days - 0.0

Total Runoff: 0.04

Ppt. Adj. Factor: Not available

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/2							
0445	.1			0545		.093	1597
50	.1			50		.093	
55				55		.085	1279
0500		.012		0600		.069	
05	.1	.016	1793	05		.061	1161
10		.020		10		.048	
15		.025	1733	15		.042	
20		.042		20		.036	1175
25		.054	1829	25		.030	
30	.1	.077		30		.030	
35		.093	1564	35		.025	
40		.093		40		.020	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

September 15, 1973

Antecedent  
Rainfall      Runoff  
0.3    - 1 day    - 0.0  
0.3    - 2 days   - 0.0  
0.3    - 5 days   - 0.0

Total Runoff: 0.2 inches

Ppt. Adj. Factor: 1.17

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
9/15							
1210	.1			1510		.099	
15				15		.099	
20				20		.099	
25				25		.099	
30				30		.099	
35	.1			35		.099	
40				40		.099	
45				45		.099	
50				50		.108	
55				55		.108	
1300	.1			1600		.108	
05				05		.108	
10				10		.108	
15				15		.108	
20				20		.108	
25				25		.099	
30	.1			30		.099	
35				35		.099	
40				40		.093	
45		.012		45		.093	
50		.025	132	50		.093	
55		.030		55		.085	
1400	.1	.030	64	1700		.085	
05		.036		05		.085	
10		.036	59	10		.077	
15		.036		15		.077	
20		.042	29	20		.069	
25	.1	.042		25		.069	
30		.048	53	30		.069	
35		.061		35		.061	
40		.069	29	40		.061	
45		.085		45		.061	
50		.093		50		.054	
55		.093	40	55		.054	
1500		.099		1800		.054	
05		.099		05		.048	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 22  
 September 15, 1973  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1810		.048		1920		.030	
15		.048		25		.030	
20		.042		30		.030	
25		.042		35		.030	
30		.042		40		.030	
35		.036		45		.030	
40		.036		50		.030	
45		.036		55		.030	
50		.036		2000		.030	
55		.036		05		.030	
1900		.036		10		.030	
05		.036		15		.030	
10		.036		20		.025	
15		.036					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 23

September 15, 1973

Antecedent  
Rainfall                      Runoff

0.4 - 1 day - 0.0

0.4 - 2 days - 0.0

0.4 - 5 days - 0.0

Total Runoff: 0.12 inches

Ppt. Adj. Factor: 1.17

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
9/15							
1235	.1			1535		.069	
40				40		.069	
45				45		.069	86
50				50		.069	
55				55		.069	51
1300				1600		.061	
05				05		.061	66
10				10		.061	
15				15		.061	94
20				20		.054	
25				25		.054	83
30	.1			30		.054	
35				35		.054	68
40				40		.048	
45				45		.048	
50				50		.048	
55				55		.042	74
1400	.1			1700		.042	
05				05		.042	
10				10		.042	75
15				15		.036	
20				20		.036	63
25	.1			25		.036	
30		*.006		30		.036	76
35		.020	30	35		.030	
40		.025	117	40		.030	71
45		.030		50		.030	
50		.042	94	50		.030	71
55		.048		55		.030	
1500		.054	73	1800		.025	67
05		.061		05		.025	
10		.061	105	10		.025	79
15		.069		15		.025	
20		.069	79	20		.025	76
25		.069		25		.025	
30		.069	90	30		.025	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 23  
 September 15, 1973  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1835		.025	69	2000		.020	
40		.025		05		.020	
45		.025	78	10		.020	
50		.025		15		.020	
55		.025	76	20		.020	
1900		.025		25		.020	
05		.020	79	30		.020	
10		.020		35		.020	
15		.020	73	40		.020	
20		.020		45		.020	
25		.020	83	50		.020	
30		.020		55		.020	
35		.020		2100		.020	
40		.020		05		.020	
45		.020		10		.020	
50		.020		15		.016	
55		.020					

\*Start of runoff is approximate. Timing was adjusted back one hour.

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

September 15, 1973

Antecedent			
Rainfall		Runoff	
0.4	- 1 day	- 0.0	Total Runoff: 0.07 inches
0.4	- 2 days	- 0.0	Ppt. Adj. Factor: 1.17
0.4	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
9/15							
1215	.1			1515		.042	
20				20		.042	91
25				25		.042	
30				30		.036	64
35				35		.036	
40	.1			40		.036	
45				45		.036	
50				50		.030	
55				55		.030	55
1300				1600		.030	
05	.1			05		.030	39
10				10		.025	
15				15		.025	67
20				20		.025	
25				25		.025	66
30	.1			30		.025	
35				35		.025	57
40				40		.020	
45				45		.020	
50				50		.020	63
55	.1			55		.020	
1400		*.004		1700		.020	68
05		.012	64	05		.020	
10		.020		10		.020	49
15		.030	80	15		.020	
20		.042		20		.020	88
25		.048	86	25		.016	
30		.048		30		.016	77
35		.054	60	35		.016	
40		.054		40		.016	
45		.054	80	45		.016	74
50		.054		50		.016	
55		.054		55		.016	72
1500		.048	66	1800		.016	
05		.048		05		.016	70
10		.048	66	10		.016	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 26  
 September 15, 1973  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1815		.016	.93	1900		.012	
20		.012		05		.012	
25		.012		10		.012	
30		.012		15		.012	
35		.012		20		.012	
40		.012		25		.012	
45		.012		30		.012	
50		.012		35		.012	
55		.012		40		.009	

\*Start of runoff is approximate. Timing was adjusted back three hours.

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 31

June 18, 1973

Antecedent  
Rainfall  
1.0 - 1 day - 0.0  
1.2 - 2 days - 0.0  
1.3 - 5 days - 0.0

Total Runoff: 0.16 inches

Ppt. Adj. Factor: Not available

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/18							
1420	.1			1720		.069	
25				25		.069	
30				30	.1	.069	
35				35		.069	745
40				40		.077	
45				45		.077	793
50				50		.077	
55				55		.077	773
1500				1800		.077	
05				05		.077	
10	.1			10		.077	
15				15		.069	
20				20		.069	
25				25		.069	
30				30		.069	
35				35		.061	
40				40		.061	
45				45		.061	
50				50		.054	767
55		.016		55		.054	
1600		.025	1290	1900		.054	729
05		.030		05		.048	
10		.030	899	10		.048	
15		.036		15		.048	
20		.042	826	20		.042	606
25	.1	.042		25		.042	
30		.042	817	30		.042	
35		.048		35		.042	
40		.048	773	40		.042	
45	.1	.048		45	.1	.036	774
50		.048		50		.042	
55		.054	740	55		.036	
1700		.054		2000		.036	
05		.054		05		.036	734
10		.061		10		.036	
15		.069	715	15		.036	

# INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 31

June 18, 1973

(Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
2020		.036	716	2155		.025	
25		.036		2200		.025	
30		.030	780	05		.025	
35		.030		10		.025	
40		.030		15		.025	
45		.030		20		.025	
50		.030		25		.025	
55		.030		30		.025	
2100		.030		35		.025	
05		.030		40		.025	
10		.030		45		.025	
15		.025		50		.025	
20		.025		55		.025	
25		.025		2200		.025	
30		.025		05		.025	
35		.025		10		.025	
40		.025		15		.025	
45		.025		20		.025	
50		.025		25		.020	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 32

June 18, 1973

Antecedent  
Rainfall                      Runoff  
0.6 - 1 day - 0.0  
0.8 - 2 days - 0.0  
0.9 - 5 days - 0.0

Total Runoff: 0.70 inches

Ppt. Adj. Factor: Not available

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/18							
1010	.1			1310		.054	
15				15		.054	
20				20	.1	.061	
25				25		.061	146
30				30		.069	
35				35		.077	103
40				40		.077	
45				45		.085	108
50				50		.085	
55				55		.085	155
1100				1400		.085	
05				05		.085	147
10				10		.085	
15				15		.093	168
20	.1			20	.1	.093	
25				25		.093	123
30				30		.099	
35				35		.099	
40				40		.108	
45				45		.118	119
50				50		.129	
55				55		.140	111
1200				1500		.140	
05				05		.151	154
10		.016		10	.1	.151	
15		.025	225	15		.162	128
20	.1	.030		20		.162	
25		.030		25		.175	116
30		.030	362	30		.175	
35		.036		35		.187	180
40		.036		40		.187	
45		.036	340	45		.187	98
50		.042		50		.187	
55		.042	297	55		.187	102
1300		.048		1600		.200	
05		.048	210	05		.200	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 32  
June 18, 1973  
(Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1610		.213	120	1935		.108	
15	.1	.213		40		.108	
20		.227	117	45	.1	.099	
25		.227		50		.099	
30		.241	128	55		.093	
35		.256		2000		.093	
40		.256		05		.085	
45	.1	.256		10		.085	
50		.256	117	15		.077	
55		.256		20		.069	
1700		.256		25		.069	
05		.256		30		.061	
10		.256		35		.061	
15		.270		40		.061	
20		.270		45		.054	
25		.286		50		.054	
30	.1	.301		55		.048	
35		.301		2100		.048	
40		.301		05		.048	
45		.301		10		.042	
50		.301		15		.042	
55		.286		20		.042	
1800		.286		25		.042	
05		.270		30		.042	
10		.270		35		.042	
15		.256		40		.042	
20		.241		45		.036	
25		.227		50		.036	
30		.213		55		.036	
35		.200		2200		.036	
40		.187		05		.036	
45		.187		10		.036	
50		.175		15		.036	
55		.162		20		.036	
1900		.151		25		.036	
05		.140		30		.036	
10		.140		35		.036	
15		.129		40		.036	
20		.129		45		.036	
25		.118		50		.036	
30		.118		55		.036	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 32  
 June 18, 1973  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
2300		.036		2310		.036	
05		.036		2315		.030	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 33  
June 18, 1973

Antecedent			
Rainfall		Runoff	
0.6	- 1 day	- 0.0	Total Runoff: 0.66 inches
0.9	- 2 days	- 0.0	Ppt. Adj. Factor: Not available
1.1	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/18							
1045	.1			1345		.099	
50				50		.108	
55				55		.099	
1100				1400		.108	
05				05		.099	
10				10		.118	
15				15		.118	
20				20		.118	
25				25		.118	
30				30		.118	
35				35		.129	
40				40		.129	
45				45		.129	
50				50		.140	
55	.1			55	.1	.140	
1200				1500		.151	
05				05		.151	
10				10		.162	
15				15		.162	
20				20		.162	
25		.009		25		.162	
30		.012		30		.162	
35		.016		35		.175	
40		.020		40		.175	
45		.025		45		.175	
50		.030		50		.175	
55	.1	.036		55	.1	.175	
1300		.042		1600		.187	
05		.054		05		.187	
10		.054		10		.200	
15		.069		15		.200	
20		.077		20		.213	
25		.077		25		.227	
30		.085		30	.1	.227	
35		.093		35		.241	
40		.099		40		.241	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 33  
June 18, 1973  
(Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1645		.241		2010		.069	
50		.241		15		.069	
55		.241		20		.069	
1700		.241		25		.061	
05		.241		30		.061	
10		.256		35		.061	
15		.256		40		.054	
20		.270		45		.054	
25	.1	.286		50		.054	
30		.286		55		.048	
35		.286		2100		.048	
40		.286		05		.048	
45		.286		10		.048	
50	.1	.270		15		.048	
55		.270		20		.042	
1800		.256		25		.042	
05		.241		30		.042	
10		.227		35		.042	
15		.213		40		.042	
20		.213		45		.042	
25		.200		50		.042	
30		.175		55		.042	
35		.175		2200		.036	
40		.151		05		.036	
45		.151		10		.036	
50		.140		15		.036	
55		.129		20		.036	
1900		.129		25		.036	
05		.118		30		.036	
10		.108		35		.036	
15		.108		40		.036	
20		.108		45		.036	
25		.099		50		.036	
30		.099		55		.030	
35		.093		2300		.030	
40		.093		05		.030	
45		.085		10		.030	
50		.085		15		.030	
55		.077		20		.030	
2000		.077		25		.030	
05		.069		30		.025	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 35

June 18, 1973

Antecedent  
Rainfall      Runoff  
0.5 - 1 day - 0.0  
0.8 - 2 days - 0.0  
1.0 - 5 days - 0.0

Total Runoff: 0.53 inches

Ppt. Adj. Factor: Not available

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/18							
0950	.1			1250		.042	
55				55		.048	
1000				1300		.048	
05				05		.054	
10				10		.061	
15				15		.069	
20				20		.069	
25				25		.069	
30				30	.1	.077	
35				35		.077	
40				40		.085	
45				45		.085	
50				50		.077	
55		.002		55		.085	
1100		.004		1400		.085	
05	.1	.006		05		.085	
10		.006		10		.085	
15		.009		15		.093	
20		.009		20		.093	
25		.009		25		.093	
30		.009		30	.1	.093	
35		.012		35		.099	
40		.009		40		.099	
45		.012		45		.108	
50		.012		50		.108	
55		.016		55		.108	
1200		.012		1500		.108	
05		.030		05		.118	
10		.030		10		.118	
15	.1	.036		15		.129	
20		.042		20		.129	
25		.030		25		.129	
30		.030		30		.129	
35		.042		35		.129	
40		.042		40	.1	.140	
45		.042		45		.140	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 35  
June 18, 1973  
(Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1550		.140		1915		.093	
55		.151		20		.093	
1600		.151		25		.085	
05		.162		30		.085	
10		.162		35		.077	
15		.175		40		.077	
20		.175		45	.1	.077	
25	.1	.187		50		.069	
30		.187		55		.069	
35		.187		2000		.069	
40		.187		05		.061	
45		.187		10		.061	
50		.187		15		.054	
55		.187		20		.054	
1700		.187		25		.054	
05		.187		30		.048	
10		.200		35		.048	
15		.200		40		.048	
20	.1	.213		45		.042	
25		.213		50		.042	
30		.213		55		.036	
35		.213		2100		.036	
40		.213		05		.036	
45		.213		10		.036	
50		.200		15		.036	
55		.200		20		.030	
1800		.187		25		.030	
05		.175		30		.030	
10		.175		35		.030	
15		.162		40		.030	
20		.162		45		.030	
25		.151		50		.030	
30		.140		55		.030	
35		.129		2200		.030	
40		.129		05		.025	
45		.118		10		.025	
50		.118		15		.025	
55		.108		20		.025	
1900		.108		25		.025	
05		.099		30		.020	
10		.099		35		.020	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 35  
 June 18, 1973  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
2240		.020		2315		.016	
45		.020		20		.016	
50		.020		25		.016	
55		.020		30		.016	
2300		.020		35		.016	
05		.016		40		.016	
10		.016		45		.012	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 14

May 29-30, 1974

Antecedent  
Rainfall      Runoff  
0.2   - 1 day   - 0.2  
0.4   - 2 days   - 0.2  
0.5   - 5 days   - 0.2

Total Runoff: .13

Ppt. Adj. Factor: 1.33

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/29							
2320	.1			0015		.368	
25		.006		20		.286	
30		.012		25		.187	
35		.042		30		.108	
40		.085		35		.077	
45		.151		40		.054	
50	.1	.241		45		.036	
55		.318		50		.025	
5/30				55		.020	
0000	.1	.386		0100		.016	
05		.441		05		.012	
10		.422		10		.006	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 15

May 29-30, 1974

Antecedent  
Rainfall      Runoff  
0.2 - 1 day - 0.0  
0.4 - 2 days - 0.0  
0.5 - 5 days - 0.0

Total Runoff: .10  
Ppt. Adj. Factor: 1.33

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/29							
2320	.1			0030		.069	6670
25		.006		35		.048	
30		.009		40		.030	5348
35		.030	2231	45		.025	
40		.061		50		.020	
45		.129	2541	55		.020	
50	.1	.187		0100		.016	
55		.241	5018	05		.012	
5/30				10		.012	
0000	.1	.301		15		.012	
05		.318	6691	20		.009	
10		.301		25		.009	
15		.241		30		.009	
20		.175	7384	35		.009	
25		.118		40		.006	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

May 20, 1974

Antecedent			
Rainfall		Runoff	
0.2	- 1 day	- 0.0	Total Runoff: 0.20
0.2	- 2 days	- 0.0	Ppt. Adj. Factor: 1.2
0.3	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/20							
0025	.1			0210		.048	
30	.3	.016		15		.048	
35		.030		20		.048	
40	.1	.129		25		.042	
45		.301		30		.042	
50		.404		35		.036	
55		.441		40		.036	
0100		.441		45		.036	
05		.386		50		.030	
10		.334		55		.030	
15		.286		0300		.030	
20		.241		05		.030	
25		.213		10		.030	
30		.162		15		.030	
35		.140		20		.030	
40		.108		25		.030	
45		.093		30		.030	
50		.085		35		.030	
55		.069		40		.030	
0200		.061		45		.025	
05		.054					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 23

May 20, 1974

Antecedent  
Rainfall                  Runoff  
0.2 - 1 day - 0.0  
0.2 - 2 days - 0.0  
0.3 - 5 days - 0.0

Total Runoff: 0.17  
Ppt. Adj. Factor: 1.2

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/20							
0025	.1			0240		.061	
30	.3			45		.061	665
35				50		.054	
40	.1			55		.054	697
45				0300		.054	
50		.012		05		.048	
55		.054	520	10		.048	
0100		.108		15		.042	692
05		.151	355	20		.042	
10		.187		25		.042	704
15		.200	385	30		.042	
20		.200		35		.042	
25		.200	457	40		.042	696
30		.187		45		.042	
35		.175	493	50		.036	724
40		.162		55		.036	
45		.151	565	0400		.036	678
50		.140		05		.036	
55		.118	654	10		.036	713
0200		.108		15		.036	
05		.099	707	20		.036	673
10		.093		25		.036	
15		.093	591	30		.036	645
20		.085		35		.036	
25		.077	687	40		.036	619
30		.077		45		.036	
35		.069	641	50		.030	633

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

May 20, 1974

Antecedent  
Rainfall      Runoff

0.1 - 1 day - 0.0

0.1 - 2 days - 0.0

0.2 - 5 days - 0.0

Total Runoff: 0.07

Ppt. Adj. Factor: 1.2

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
5/20							
0030	.2			0235		.042	380
35	.1			40		.036	
40	.1			45		.036	326
45	.1			50		.036	
50				55		.030	330
55				0300		.030	
0100				05		.025	
05				10		.025	
10		.002		15		.025	348
15		.061		20		.025	
20		.077		25		.020	308
25		.085	239	30		.020	
30		.085		35		.020	316
35		.085	298	40		.020	
40		.085		45		.020	342
45		.077	262	50		.016	
50		.077		55		.016	338
55		.069	260	0400		.016	
0200		.069		05		.016	
05		.061	326	10		.016	
10		.054		15		.016	
15		.054	357	20		.016	
20		.048		25		.016	315
25		.048		30		.016	
30		.042		35		.012	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 32

July 3, 1974

Antecedent

Rainfall      Runoff

0.7   - 1 day   - 0.0

0.7   - 2 days   - 0.0

0.7   - 5 days   - 0.0

Total Runoff: 0.16

Ppt. Adj. Factor: 1.13

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/3							
0730		.006		1030		.054	161
35	.1	.012		35		.048	
40		.042	453	40		.048	112
45		.077		45		.042	
50		.077	152	50		.042	
55	.1	.077		55		.036	
0800		.069	166	1100		.036	
05		.061		05		.036	
10	.1	.061	127	10		.030	
15		.061		15		.030	
20	.1	.069	113	20		.030	
25	.1	.085		25		.030	
30		.093	120	30		.030	
35		.093		35		.030	
40		.099	127	40		.030	
45		.099		45		.030	
50	.1	.099	119	50		.025	
55		.099		55		.025	
0900		.108	115	1200		.025	
05		.108		05		.025	
10		.108	91	10		.025	
15	.1	.108		15		.025	
20		.108	126	20		.020	
25		.108		25		.020	
30		.099	99	30		.020	
35		.099		35		.020	
40		.093	113	40		.020	
45		.085		45		.020	
50	.1	.085		50		.020	
55		.085		55		.020	
1000		.085		1300		.020	
05		.077		05		.020	
10		.069		10		.020	
15		.069		15		.020	
20		.061	138	20		.016	
25		.054					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 33

July 3, 1974

Antecedent

Rainfall      Runoff

0.7   - 1 day   - 0.0

0.7   - 2 days   - 0.0

0.7   - 5 days   - 0.0

Total Runoff: 0.13

Ppt. Adj. Factor: 1.13

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/3							
0730	.1			1030		.099	
35				35		.099	
40				40		.093	
45				45		.085	
50				50		.077	
55				55		.077	
0800	.1			1100		.069	
05				05		.061	
10				10		.061	
15	.1			15		.054	
20				20		.048	
25				25		.048	
30	.1			30		.042	
35	.1			35		.042	
40				40		.036	
45				45		.036	
50		.006		50		.036	
55		.025		55		.030	
0900		.030		1200		.030	
05	.1	.036		05		.030	
10		.042		10		.030	
15		.054		15		.025	
20		.069		20		.025	
25		.077		25		.025	
30	.1	.093		30		.025	
35		.093		35		.025	
40		.099		40		.025	
45		.099		45		.020	
50		.108		50		.020	
55		.108		55		.020	
1000		.118		1300		.020	
05	.1	.118		05		.016	
10		.118		10		.016	
15		.118		15		.016	
20		.108		20		.012	
25		.108					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 35

July 3, 1974

Antecedent			
Rainfall		Runoff	
0.8	- 1 day -	0.0	Total Runoff: 0.08
0.8	- 2 days -	0.0	Ppt. Adj. Factor: 1.13
0.8	- 5 days -	0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
7/3							
0745	.1			1025		.069	
50				30		.069	
55				35		.061	
0800	.1			40		.061	
05				45		.054	
10	.1			50		.048	
15	.1			55		.048	
20				1100		.042	
25				05		.036	
30				10		.036	
35		.001		15		.030	
40	.1	.012		20		.030	
45		.016		25		.025	
50		.020		30		.025	
55		.025		35		.020	
0900		.030		40		.020	
05	.1	.036		45		.020	
10		.042		50		.016	
15		.048		55		.016	
20		.054		1200		.016	
25		.054		05		.012	
30		.054		10		.012	
35		.061		15		.012	
40		.061		20		.009	
45	.1	.069		25		.009	
50		.069		30		.009	
55		.077		35		.009	
1000		.077		40		.006	
05		.077		45		.066	
10		.077		50		.006	
15		.077		55		.006	
20		.077		1300		.004	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 14

June 25, 1975

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: 0.49 inches
0.0	- 2 days	- 0.0	Ppt. Adj. Factor: Not available
0.0	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/25							
1835	.1	.009		1920		.635	
40	.2	.461		25		.404	
45	.1	1.127		30		.256	
50	.1	1.446		35		.151	
55	.2	1.646		40	.1	.099	
1900		1.690		45		.085	
05	.1	1.561		50		.061	
10		1.229		55		.048	
15		.907		2000		.042	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 15

June 25, 1975

Antecedent			
Rainfall		Runoff	
0.0	- 1 day -	0.00	Total Runoff: 0.36 inches
0.0	- 2 days -	0.00	Ppt. Adj. Factor: Not available
0.0	- 5 days -	0.00	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/25							
1830		.006		1920		.386	
35	.1	.140		25		.270	
40	.2	.635		30		.162	
45	.1	.878		35		.085	
50	.1	1.161		40	.1	.054	
55	.2	1.685		45		.036	
1900		1.194		50		.030	
05	.1	1.030		55		.025	
10		.849		2000		.025	
15		.587					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

June 18-19, 1975

Antecedent			
Rainfall		Runoff	
0.6	- 1 day	- 0.0	Total Runoff: 0.20 inches
0.6	- 2 days	- 0.0	Ppt. Adj. Factor: 1
0.8	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/18							
2320	.1			0205		.129	
25				10		.118	
30				15		.108	
35				20		.099	
40				25		.093	
45				30		.093	
50	.1			35		.085	
55				40		.077	
6/19				45		.077	
0000				50		.069	
05				55		.061	
10				0300		.054	
15				05		.054	
20		.020		10	.1	.054	
25	.1	.042		15		.048	
30		.054		20		.048	
35		.077		25		.042	
40		.108		30		.042	
45		.151		35		.042	
50		.187		40		.042	
55		.200		45		.036	
0100	.1	.200		50		.036	
05		.187		55		.036	
10		.162		0400		.030	
15		.162		05		.030	
20		.162		10		.030	
25		.162		15		.030	
30		.162		20		.030	
35		.162		25		.030	
40		.162		30		.030	
45		.162		35		.030	
50		.151		40		.030	
55		.140		45		.025	
0200		.140					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 23  
June 18-19, 1975

Antecedent			
Rainfall		Runoff	
0.6	- 1 day	- 0.0	Total Runoff: 0.18 inches
0.6	- 2 days	- 0.0	Ppt. Adj. Factor: 1.0
0.8	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/18							
2300				0150		.140	
05				55		.140	
10				0200		.140	
15				05		.140	
20	.1			10		.140	
25				15		.140	
30				20		.140	
35				25		.129	
40				30		.129	
45				35		.129	
50	.1			40		.118	
55				45		.118	
6/19				50		.108	
0000				55		.108	
05				0300		.099	
10		.025		05		.099	
15		.030		10	.1	.093	
20		.030		15		.093	
25	.1	.030		20		.085	
30		.030		25		.085	
35		.030		30		.077	
40		.030		35		.077	
45		.030		40		.069	
50		.030		45		.069	
55		.030		50		.061	
0100	.1	.030		55		.061	
05		.030		0400		.061	
10		.030		05		.054	
15		.048		10		.054	
20		.077		15		.054	
25		.093		20		.048	
30		.108		25		.048	
35		.118		30		.048	
40		.129		35		.042	
45		.140					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

June 19, 1975

Antecedent			
Rainfall		Runoff	
0.5	- 1 day	- 0.0	Total Runoff: 0.09 inches
0.5	- 2 days	- 0.0	Ppt. Adj. Factor: 1.0
0.7	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/19							
0000				0300		.054	
05				05		.054	
10	.1			10		.048	
15				15		.048	
20	.1			20		.042	
25				25		.042	
30				30		.042	
35				35		.036	
40	.1			40		.036	
45				45		.036	
50				50		.030	
55				55		.030	
0100				0400		.030	
05				05		.025	
10	.1			10		.025	
15				15		.025	
20				20		.025	
25		.002		25		.025	
30		.016		30		.020	
35		.025		35		.020	
40		.036		40		.020	
45	.1	.048		45		.020	
50		.054		50		.020	
55		.061		55		.020	
0200		.061		0500		.020	
05		.069		05		.016	
10		.069		10		.016	
15		.069		15		.016	
20		.069		20		.016	
25		.069		25		.016	
30		.069		30		.016	
35		.069		35		.016	
40		.061		40		.016	
45		.161		45		.016	
50		.061		50		.016	
55		.061		55		.012	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

June 26, 1975

Antecedent			
Rainfall		Runoff	
1.2	- 1 day -	0.35	Total Runoff: .55 inches
1.2	- 2 days -	0.35	Ppt. Adj. Factor: 1.17
1.2	- 5 days -	0.35	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/26							
0225		.030		0525		.227	
30	.1	.036		30		.213	
35		.042		35		.200	
40		.048		40		.162	
45		.061		45		.162	
50		.093		50		.140	
55		.129		55		.118	
0300	.1	.200		0600		.108	
05		.256		05		.099	
10		.301		10		.099	
15		.318		15		.093	
20		.318		20		.085	
25		.318		25		.077	
30		.318		30		.077	
35	.1	.301		35		.069	
40		.301		40		.061	
45		.286		45		.061	
50		.286		50		.061	
55		.286		55		.054	
0400		.301		0700		.054	
05	.1	.301		05		.054	
10		.334		10		.054	
15		.351		15		.054	
20		.368		20		.048	
25		.404		25		.048	
30	.1	.422		30		.048	
35		.422		35		.048	
40		.422		40		.042	
45		.422		45		.042	
50		.422		50		.042	
55		.404		55		.042	
0500	.1	.368		0800		.042	
05		.351		05		.036	
10		.318		10		.036	
15		.270		15		.036	
20		.256		20		.036	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 22  
 June 26, 1975  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0825		.036		0900		.030	
30		.036		05		.030	
35		.036		10		.030	
40		.030		15		.030	
45		.030		20		.030	
50		.030		25		.025	
55		.030					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 23

June 26, 1975

Antecedent			
Rainfall		Runoff	
1.2	- 1 day	- 0.37	Total Runoff: .72 inches
1.2	- 2 days	- 0.37	Ppt. Adj. Factor: 1.17
1.2	- 5 days	- 0.37	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/26							
0225		.036		0525		.368	
30	.1	.042		30		.334	
35		.042		35		.318	
40		.042		40		.301	
45		.048		45		.286	
50		.061		50		.270	
55		.077		55		.241	
0300	.1	.099		0600		.227	
05		.129		05		.213	
10		.162		10		.200	
15		.200		15		.187	
20		.227		20		.175	
25		.241		25		.162	
30		.270		30		.151	
35	.1	.286		35		.140	
40		.301		40		.140	
45		.318		45		.129	
50		.318		50		.129	
55		.318		55		.118	
0400		.334		0700		.118	
05	.1	.334		05		.108	
10		.351		10		.108	
15		.368		15		.099	
20		.368		20		.099	
25		.386		25		.093	
30	.1	.404		30		.093	
35		.422		35		.093	
40		.441		40		.085	
45		.441		45		.085	
50		.441		50		.085	
55		.441		55		.077	
0500	.1	.441		0800		.077	
05		.441		05		.077	
10		.422		10		.069	
15		.404		15		.069	
20		.386		20		.061	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 23  
 June 26, 1975  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0825		.061		15		.036	
30		.061		20		.036	
35		.061		25		.036	
40		.061		30		.036	
45		.054		35		.036	
50		.054		40		.036	
55		.048		45		.036	
0900		.048		50		.036	
05		.048		55		.036	
10		.048		1100		.036	
15		.048		05		.036	
20		.042		10		.036	
25		.042		15		.036	
30		.042		20		.036	
35		.042		25		.036	
40		.042		30		.036	
45		.042		35		.036	
50		.042		40		.036	
55		.042		45		.036	
1000		.042		50		.036	
05		.042		55		.036	
10		.036		1200		.036	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

June 26, 1975

Antecedent  
Rainfall      Runoff  
1.2   - 1 day   - 0.24  
1.2   - 2 days   - 0.24  
1.2   - 5 days   - 0.24

Total Runoff: 0.46 inches

Ppt. Adj. Factor: 1.17

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/26							
0210	.1			10		.301	
15				15		.286	
20				20	.1	.270	
25				25		.256	
30				30		.227	
35		.016		35		.213	
40	.1	.020		40		.200	
45		.020		45		.175	
50		.030		50		.151	
55		.042		55		.140	
0300	.1	.061		0600		.129	
05		.085		05		.118	
10		.108		10		.108	
15		.129		15		.099	
20		.162		20		.093	
25		.187		25		.093	
30		.213		30		.085	
35		.213		35		.085	
40	.1	.227		40		.077	
45		.227		45		.069	
50		.241		50		.069	
55		.241		55		.069	
0400		.241		0700		.069	
05		.256		05		.061	
10	.1	.256		10		.061	
15		.270		15		.061	
20		.286		20		.061	
25		.301		25		.054	
30	.1	.301		30		.054	
35		.318		35		.048	
40		.334		40		.048	
45		.334		45		.048	
50		.334		50		.042	
55		.334		55		.042	
0500		.318		0800		.042	
05		.318		05		.042	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 26  
 June 26, 1975  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0810		.036		0905			.025
15		.036		10			.025
20		.036		15			.025
25		.030		20			.020
30		.030		25			.020
35		.030		30			.020
40		.030		35			.020
45		.025		40			.020
50		.025		45			.020
55		.025		50			.016
0900		.025					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 31

June 26, 1975

Antecedent			
Rainfall		Runoff	
1.3	- 1 day -	0.02	Total Runoff: 0.17
1.3	- 2 days -	0.02	Ppt. Adj. Factor: Not available
1.3	- 5 days -	0.02	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/26							
0200		.016		0500		.069	
05		.016		05		.069	
10		.016		10		.069	
15		.016		15		.061	
20		.016		20		.054	
25		.016		25		.054	
30		.016		30		.054	
35	.1	.020		35		.048	
40		.020		40		.048	
45		.020		45		.042	
50		.020		50		.042	
55	.1	.020		55		.042	
0300		.025		0600		.042	
05		.025		05		.042	
10		.025		10		.042	
15		.030		15		.042	
20	.1	.030		20		.036	
25		.030		25		.036	
30		.030		30		.036	
35		.036		35		.036	
40		.042		40		.036	
45		.048		45		.036	
50		.048		50		.036	
55		.054		55		.036	
0400		.054		0700		.036	
05	.1	.054		05		.036	
10		.061		10		.036	
15		.061		15		.036	
20		.069		20		.036	
25		.069		25		.036	
30		.069		30		.036	
35		.069		35		.042	
40	.1	.069		40		.042	
45		.077		45		.042	
50		.077		50		.042	
55		.077		55		.042	

# INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 31

June 26, 1975

(Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0800		.036		0950		.030	
05		.036		55		.030	
10		.036		1000		.030	
15		.036		05		.030	
20		.036		10		.025	
25		.036		15		.025	
30		.036		20		.025	
35		.036		25		.025	
40		.036		30		.025	
45		.036		35		.025	
50		.036		40		.025	
55		.030		45		.025	
0900		.030		50		.025	
05		.030		55		.025	
10		.030		1100		.025	
15		.030		05		.025	
20		.030		10		.025	
25		.030		15		.025	
30		.030		20		.025	
35		.030		25		.025	
40		.030		30		.020	
45		.030					

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 32  
June 26, 1975

Antecedent			
Rainfall		Runoff	
1.4	- 1 day -	0.22	Total Runoff: 0.48
1.4	- 2 days -	0.22	Ppt. Adj. Factor: Not available
1.4	- 5 days -	0.22	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/26							
0250		*.020		0550		.227	
55	.1	.025		55		.213	
0300		.030		0600		.187	
05		.036		05		.187	
10		.042		10		.175	
15		.048		15		.162	
20	.1	.069		20		.151	
25		.093		25		.140	
30		.118		30		.129	
35		.151		35		.129	
40		.187		40		.118	
45		.213		45		.118	
50		.227		50		.108	
55		.241		55		.108	
0400		.256		0700		.099	
05	.1	.256		05		.099	
10		.256		10		.093	
15		.256		15		.093	
20		.256		20		.085	
25		.256		25		.085	
30		.256		30		.077	
35		.256		35		.077	
40	.1	.256		40		.069	
45		.270		45		.069	
50		.270		50		.069	
55		.286		55		.061	
0500		.286		0800		.061	
05		.301		05		.054	
10		.301		10		.054	
15		.301		15		.054	
20		.301		20		.048	
25		.286		25		.048	
30		.270		30		.042	
35		.270		35		.042	
40		.241		40		.042	
45		.227		45		.036	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 32  
 June 26, 1975  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0850		.036		0955		.025	
55		.036		1000		.025	
0900		.030		05		.025	
05		.030		10		.025	
10		.030		15		.025	
15		.030		20		.025	
20		.030		25		.025	
25		.030		30		.025	
30		.030		35		.025	
35		.030		40		.020	
40		.030		45		.020	
45		.030		50		.020	
50		.030		55		.020	

\*Timing is approximate.

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 33

June 26, 1975

Antecedent			
Rainfall		Runoff	
1.3	- 1 day	- 0.17	Total Runoff: 0.47
1.3	- 2 days	- 0.17	Ppt. Adj. Factor: Not available
1.3	- 5 days	- 0.17	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/26							
0200				0500		.270	
05				05		.256	
10				10		.241	
15				15		.227	
20				20		.213	
25		.016		25		.200	
30	.1	.020		30		.187	
35		.025		35		.175	
40		.030		40		.162	
45		.042		45		.151	
50	.1	.054		50		.140	
55		.069		55		.129	
0300		.085		0600		.129	
05		.118		05		.118	
10		.151		10		.108	
15	.1	.187		15		.108	
20		.213		20		.099	
25		.241		25		.099	
30		.241		30		.093	
35		.256		35		.085	
40		.256		40		.077	
45		.241		45		.077	
50		.241		50		.077	
55		.241		55		.069	
0400		.241		0700		.069	
05	.1	.241		05		.069	
10		.241		10		.069	
15		.241		15		.061	
20		.256		20		.061	
25		.256		25		.054	
30		.270		30		.054	
35		.286		35		.054	
40	.1	.286		40		.048	
45		.286		45		.048	
50		.286		50		.048	
55		.286		55		.048	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 33  
 June 26, 1975  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0800		.042		0920		.025	
05		.042		25		.025	
10		.042		30		.025	
15		.042		35		.025	
20		.036		40		.025	
25		.036		45		.025	
30		.036		50		.025	
35		.036		55		.025	
40		.030		1000		.025	
45		.030		05		.025	
50		.030		10		.020	
55		.030		15		.020	
0900		.030		20		.020	
05		.030		25		.020	
10		.030		30		.020	
15		.025		35		.016	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 35

June 26, 1975

Antecedent

Rainfall                      Runoff

1.2 - 1 day - 0.09

1.2 - 2 days - 0.09

1.2 - 5 days - 0.09

Total Runoff: 0.28

Ppt. Adj. Factor: Not available

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/26							
0200				0500		.175	
05				05		.175	
10				10		.162	
15				15		.151	
20				20		.151	
25		.004		25		.140	
30	.1	.006		30		.129	
35		.012		35		.129	
40		.020		40		.118	
45		.030		45		.108	
50	.1	.036		50		.099	
55		.048		55		.099	
0300		.061		0600		.093	
05		.085		05		.093	
10	.1	.099		10		.085	
15		.118		15		.077	
20		.129		20		.077	
25		.129		25		.077	
30		.140		30		.069	
35		.140		35		.061	
40		.140		40		.061	
45		.140		45		.054	
50		.140		50		.054	
55		.140		55		.054	
0400	.1	.151		0700		.054	
05		.151		05		.048	
10		.162		10		.048	
15		.162		15		.042	
20		.162		20		.042	
25		.162		25		.042	
30		.175		30		.036	
35		.175		35		.036	
40	.1	.175		40		.036	
45		.187		45		.036	
50		.175		50		.030	
55		.175		55		.030	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 35  
 June 26, 1975  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
0800		.016		0850		.009	
05		.016		55		.009	
10		.012		0900		.009	
15		.012		05		.006	
20		.012		10		.006	
25		.012		15		.006	
30		.012		20		.006	
35		.009		25		.006	
40		.009		30		.006	
45		.009		35		.004	

Table 2. INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed No. 13  
June 22-23, 1976

Antecedent			
Rainfall		Runoff	
0.0	- 1 day -	0.00	Total Runoff: 0.35 inches
0.1	- 2 days -	0.00	Ppt. Adj. Factor: Not available
0.3	- 5 days -	0.10	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2120	.1	.030		0015		.085	
25	.2	.069		20		.069	
30	.3	.187		25		.061	
35	.2	.227		30		.048	
40		.241		35		.048	
45	.1	.318		40		.042	
50		.480		45		.036	
55		.635		50		.036	
2200		.686		55		.036	
05		.686		6/23			
10		.686		0000		.036	
15		.635		05		.036	
20		.521		10		.036	
25		.461		15		.036	
30		.386		20		.036	
35		.334		25		.036	
40		.286		30		.036	
45		.270		35		.036	
50		.270		40		.036	
55		.256		45		.036	
2300		.129		50		.036	
05		.108		55		.030	
10		.099					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed No. 14

June 22, 1976

Antecedent  
Rainfall                  Runoff  
0.0 - 1 day - 0.0  
0.1 - 2 days - 0.0  
0.2 - 5 days - 0.3

Total Runoff: 0.64 inches

Ppt. Adj. Factor: Not available

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2035	.1			2155	.1	.587	
40				2200		.334	
45				05		.187	
50				10		.085	
55				15		.054	
2100				20		.030	
05				25		.016	
10				30		.012	
15	.3	.004		35		.009	
20	.3	1.335		40		.009	
25	.1	2.639		45		.006	
30	.1	3.048		50		.006	
35		2.639		55		.006	
40		2.061		2300		.006	
45		1.478		05		.006	
50		.998		10		.004	

Table 2. INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed No. 15  
June 22-23, 1976

Antecedent		
Rainfall	Runoff	
0.0 - 1 day -	0.0	Total Runoff: 0.61 inches
0.1 - 2 days -	0.0	Ppt. Adj. Factor: Not available
0.2 - 5 days -	0.28	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2035	.1			15		.227	
40				20		.118	
45				25		.061	
50				30		.042	
55				35		.036	
2100				40		.030	
05				45		.030	
10				50		.030	
15	.3			55		.025	
20	.3	.016		2300		.025	
25	.1	.937		05		.025	
30	.1	1.965		10		.025	
35		2.474		15		.020	
40		2.474		20		.020	
45		2.161		25		.020	
50		1.603		30		.020	
55	.1	1.161		35		.020	
2200		.820		40		.020	
05		.521		45		.016	
10		.368					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 16

June 22-23, 1976

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: 0.08 inches
0.1	- 2 days	- 0.0	Ppt. Adj. Factor: Not available
0.2	- 5 days	- 0.03	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2035	.1			2335		.036	
40				40		.036	
45				45		.036	
50				50		.036	
55				55		.030	
2100				6/23			
05				0000		.030	
10				05		.030	
15	.3			10		.030	
20	.3	.006		15		.030	
25	.1	.012		20		.030	
30	.1	.020		25		.030	
35		.025		30		.030	
40		.030		35		.030	
45		.036		40		.030	
50		.042		45		.025	
55	.1	.042		50		.025	
2200		.048		55		.025	
05		.054		0100		.025	
10		.054		05		.025	
15		.054		10		.025	
20		.054		15		.025	
25		.054		20		.025	
30		.054		25		.025	
35		.054		30		.020	
40		.054		35		.020	
45		.054		40		.020	
50		.054		45		.020	
55		.054		50		.020	
2300		.048		55		.020	
05		.048		0200		.020	
10		.048		05		.020	
15		.042		10		.020	
20		.042		15		.020	
25		.042		20		.016	
30		.042					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed No. 22

June 22-23, 1976

Antecedent			
Rainfall		Runoff	
0.0	- 1 day -	0.0	Total Runoff: 0.16 inches
0.0	- 2 days -	0.0	Ppt. Adj. Factor: 1.38
0.3	- 5 days -	0.6	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2115	.2			55		.042	
20	.2			2300		.042	
25	.2	.036		05		.042	
30	.1	.151		10		.036	
35	.1	.318		15		.036	
40		.422		20		.036	
45		.422		25		.036	
50		.386		30		.030	
55		.334		35		.030	
2200		.301		40		.030	
05		.241		45		.030	
10		.200		50		.030	
15		.151		55		.025	
20		.108		6/23			
25		.093		0000		.025	
30		.085		05		.025	
35		.069		10		.025	
40		.061		15		.025	
45		.054		20		.020	
50		.048					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 23

June 22-23, 1976

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: 0.17 inches
0.0	- 2 days	- 0.0	Ppt. Adj. Factor: 1.38
0.3	- 5 days	- 0.08	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2115	.2			0015		.085	
20	.2			20		.085	
25	.2			25		.077	
30	.1			30		.077	
35	.1	.009		35		.077	
40		.099		40		.069	
45		.187		45		.069	
50		.227		50		.069	
55		.256		55		.061	
2200		.256		6/23			
05		.256		0000		.061	
10		.241		05		.061	
15		.213		10		.054	
20		.200		15		.054	
25		.187		20		.054	
30		.175		25		.048	
35		.162		30		.048	
40		.151		35		.048	
45		.140		40		.042	
50		.129		45		.042	
55		.118		50		.042	
2300		.099		55		.042	
05		.099		0100		.042	
10		.093		05		.036	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

June 22-23, 1976

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: 0.16 inches
0.0	- 2 days	- 0.0	Ppt. Adj. Factor: 1.38
0.2	- 5 days	- 0.08	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2115	.1			2315		.061	
20	.2			20		.061	
25	.2			25		.054	
30	.2	.004		30		.054	
35	.1	.061		35		.048	
40		.162		40		.048	
45		.227		45		.048	
50		.256		50		.042	
55		.270		55		.042	
2200		.256		6/23			
05		.241		0000		.042	
10		.227		05		.036	
15		.213		10		.036	
20		.200		15		.036	
25		.175		20		.030	
30		.140		25		.030	
35		.118		30		.030	
40		.099		35		.030	
45		.093		40		.025	
50		.093		45		.025	
55	.1	.085		50		.025	
2300		.077		55		.025	
05		.069		0100		.020	
10		.069					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 31

June 22-23, 1976

Antecedent							
Rainfall		Runoff					
0.0	- 1 day	-	0.0	Total Runoff: 0.19 inches			
0.0	- 2 days	-	0.0	Ppt. Adj. Factor: Not available			
0.3	- 5 days	-	0.0				
Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2030	.1			2245		.099	
35	.2			50		.093	
40				55		.085	
45				2300		.085	
50				05		.077	
55				10		.077	
2100				15		.077	
05				20		.069	
10				25		.069	
15	.2			30		.061	
20	.4	.012		35		.054	
25	.2	.025		40		.054	
30	.1	.025		45		.048	
35	.1	.030		50		.048	
40		.048		55		.048	
45		.093		6/23			
50		.140		0000		.042	
55		.162		05		.042	
2200		.175		10		.042	
05		.175		15		.036	
10		.162		20		.036	
15		.151		25		.036	
20		.129		30		.036	
25		.118		35		.036	
30		.108		40		.036	
35		.108		45		.030	
40		.099					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 32

June 22-23, 1976

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.0	Total Runoff: 0.55 inches
0.0	- 2 days	- 0.0	Ppt. Adj. Factor: Not available
0.3	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2030	.1			2250		.175	
35	.2			55		.151	
40				2300		.140	
45				05		.129	
50				10		.118	
55				15		.108	
2100				20		.099	
05				25		.099	
10				30		.093	
15	.2	.012		35		.129	
20	.4	.036		40		.140	
25	.2	.351		45		.140	
30	.1	.712		50		.129	
35	.1	.937		55		.118	
40		1.194		6/23			
45		1.264		0000		.108	
50		1.194		05		.093	
55		.998		10		.085	
2200		.820		15		.077	
05		.635		20		.077	
10		.521		25		.061	
15		.441		30		.061	
20		.368		35		.054	
25		.334		40		.048	
30		.286		45		.048	
35		.256		50		.042	
40		.213		55		.042	
45		.187		0100		.036	

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 33  
June 22-23, 1976

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.00	Total Runoff: 0.50 inches Ppt. Adj. Factor: Not available
0.0	- 2 days	- 0.00	
0.3	- 5 days	- 0.10	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2030	.1			2245		.162	
35	.1			50		.151	
40				55		.129	
45				2300		.118	
50				05		.108	
55				10		.099	
2100				15		.099	
05				20		.085	
10				25		.077	
15	.3	.012		30		.077	
20	.3	.151		35		.069	
25	.3	.500		40		.069	
30	.1	.820		45		.061	
35		1.161		50		.061	
40		1.264		55		.061	
45		1.161		6/23			
50		1.030		0000		.054	
55		.820		05		.054	
2200		.660		10		.048	
05		.541		15		.048	
10		.461		20		.048	
15		.386		25		.042	
20		.334		30		.042	
25		.286		35		.042	
30		.241		40		.042	
35		.213		45		.036	
40		.187					

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 35  
June 22-23, 1976

Antecedent			
Rainfall		Runoff	
0.0	- 1 day -	0.0	Total Runoff: 0.32 inches
0.0	- 2 days -	0.0	Ppt. Adj. Factor: Not available
0.3	- 5 days -	0.04	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/22							
2030	.1			2245		.129	
35				50		.118	
40				55		.099	
45				2300		.093	
50				05		.085	
55				10		.077	
2100				15		.069	
05				20		.069	
10	.2	.002		25		.061	
15	.4	.020		30		.061	
20	.3	.334		35		.054	
25	.1	.521		40		.054	
30		.587		45		.048	
35		.611		50		.042	
40		.635		55		.042	
45		.611		6/23			
50		.564		0000		.042	
55		.480		05		.036	
2200		.422		10		.036	
05		.368		15		.030	
10		.301		20		.030	
15		.270		25		.030	
20		.227		30		.025	
25		.200		35		.025	
30		.175		40		.025	
35		.151		45		.025	
40		.140		50		.020	

Table 2.

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 13  
June 10, 1977

Antecedent			
Rainfall		Runoff	
0.9	- 1 day -	0.27	Total Runoff: 0.49 inches
2.2	- 2 days -	0.27	Ppt. Adj. Factor: 1.10
2.2	- 5 days -	0.27	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/10							
1550	.1			1850		.129	
55				55		.118	
1600	.1			1900		.108	
05	.1			05		.099	
10				10		.093	
15	.1	.016		15		.085	
20	.1	.093		20		.077	
25		.140		25		.069	
30	.1	.213		30		.061	
35		.270		35		.054	
40		.351		40		.054	
45		.461		45		.048	
50		.541		50		.048	
55		.564		55		.042	
1700		.564		2000		.042	
05	.1	.564		05		.030	
10		.541		10		.036	
15		.521		15		.030	
20		.500		20		.030	
25		.422		25		.030	
30		.386		30		.030	
35	.1	.386		35		.025	
40		.386		40		.025	
45		.386		45		.025	
50		.351		50		.025	
55		.351		55		.025	
1800		.334		2100		.025	
05		.318		05		.025	
10		.318		10		.025	
15		.301		15		.025	
20		.286		20		.025	
25		.256		25		.025	
30		.213		30		.025	
35		.187		35		.025	
40		.200		40		.025	
45		.200		45		.020	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 14

June 10, 1977

Antecedent  
Rainfall      Runoff  
0.9   - 1 day   - 0.60  
2.2   - 2 days   - 0.88  
2.2   - 5 days   - 0.88

Total Runoff: 0.62 inches

Ppt. Adj. Factor: 1.10

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/10							
1550	.1			1745		.422	
55		.006		50		.334	
1600	.1	.241		55		.227	
05	.1	.635		1800		.151	
10		.998		05		.099	
15	.1	1.335		10		.085	
20	.1	1.519		15		.069	
25		1.446		20		.054	
30	.1	1.194		25		.042	
35		.968		30		.036	
40		.765		35		.025	
45		.587		40		.025	
50		.461		45		.020	
55		.386		50		.016	
1700		.334		55		.012	
05	.1	.318		1900		.012	
10		.301		05		.009	
15		.301		10		.009	
20		.301		15		.009	
25		.270		20		.099	
30		.286		25		.009	
35	.1	.422		30		.006	
40		.500					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 15  
June 10, 1977

Antecedent			
Rainfall		Runoff	
0.9	- 1 day -	0.56	Total Runoff: 0.56 inches
2.2	- 2 days -	0.81	Ppt. Adj. Factor: 1.10
2.2	- 5 days -	0.81	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/10							
1550	.1			1745		.351	
55		.012		50		.334	
1600	.1	.077		55		.286	
05	.1	.286		1800		.241	
10		.521		05		.175	
15	.1	.968		10		.129	
20	.1	1.127		15		.093	
25		1.127		20		.069	
30	.1	1.127		25		.054	
35		.998		30		.042	
40		.820		35		.036	
45		.686		40		.036	
50		.521		45		.030	
55		.461		50		.030	
1700		.386		55		.025	
05	.1	.351		1900		.020	
10		.334		05		.020	
15		.301		10		.020	
20		.270		15		.016	
25		.241		20		.016	
30		.270		25		.016	
35	.1	.351		30		.012	
40		.368					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 16

June 10, 1977

Antecedent			
Rainfall		Runoff	
0.7	- 1 day	- 0.0	Total Runoff: 0.12 inches Ppt. Adj. Factor: 1.10
1.9	- 2 days	- 0.0	
1.9	- 5 days	- 0.0	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/10							
1550	.1			1850		.093	
55	.1			55		.093	
1600				1900		.093	
05	.1			05		.093	
10	.1			10		.093	
15				15		.085	
20	.1			20		.085	
25	.			25		.085	
30				30		.077	
35				35		.077	
40	.1			40		.077	
45				45		.069	
50				50		.069	
55				55		.069	
1700				2000		.061	
05				05		.061	
10				10		.061	
15				15		.054	
20				20		.054	
25	.1			25		.054	
30				30		.048	
35				35		.048	
40				40		.048	
45		.006		45		.048	
50		.030		50		.042	
55		.036		55		.042	
1800		.048		2100		.042	
05		.054		05		.042	
10		.077		10		.036	
15		.085		15		.036	
20		.085		20		.036	
25		.093		25		.036	
30		.093		30		.036	
35		.093		35		.030	
40		.093		40		.030	
45		.093		45		.030	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 16  
 June 10, 1977  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
2150		.030		2255		.016	
55		.030		2300		.016	
2200		.030		05		.016	
05		.025		10		.016	
10		.025		15		.012	
15		.025		20		.012	
20		.025		25		.012	
25		.025		30		.012	
30		.025		35		.012	
35		.020		40		.012	
40		.016		45		.012	
45		.016		50		.012	
50		.016					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

June 12, 1977

Antecedent  
Rainfall      Runoff  
0.0 - 1 day - 0.00  
0.7 - 2 days - 0.37  
3.3 - 5 days - 1.00

Total Runoff: 0.59 inches  
Ppt. Adj. Factor: 1.00

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/12							
0515	.1			0745		.187	
20				50		.162	
25				55		.162	
30	.2			0800		.162	
35		.025		05		.162	
40		.042		10		.162	
45		.048		15		.151	
50	.1	.077		20		.140	
55	.1	.213		25		.129	
0600		.351		30		.108	
05		.422		35		.099	
10	.1	.521		40		.093	
15		.611		45		.085	
20	.1	.712		50		.069	
25	.1	.878		55		.069	
30		.988		0900		.061	
35		1.030		05		.061	
40		.968		10		.054	
45		.878		15		.048	
50		.738		20		.048	
55		.587		25		.048	
0700		.480		30		.042	
05	.1	.422		35		.042	
10		.368		40		.042	
15		.318		45		.036	
20		.270		50		.036	
25		.256		55		.036	
30		.227		1000		.036	
35		.213		05		.036	
40		.200		10		.030	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 23

June 12, 1977

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.00	Total Runoff: 0.78 inches
0.7	- 2 days	- 0.49	Ppt. Adj. Factor: 1.00
3.3	- 5 days	- 1.06	

Time	Rainfall	Runoff	Sediment	Time*	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/12							
0515	.1			0815		.241	
20				20		.227	
25				25		.213	
30	.2			30		.213	
35				35		.200	
40				40		.187	
45				45		.175	
50	.1	.030		50		.162	
55	.1	.048		55		.162	
0600		.108		0900		.151	
05		.187		05		.140	
10	.1	.286		10		.129	
15		.404		15		.129	
20	.1	.500		20		.118	
25	.1	.635		25		.108	
30		.738		30		.108	
35		.820		35		.108	
40		.849		40		.099	
45		.820		45		.099	
50		.793		50		.093	
55		.765		55		.093	
0700		.712		1000		.093	
05	.1	.660		05		.085	
10		.611		10		.085	
15		.564		15		.085	
20		.521		20		.085	
25		.480		25		.077	
30		.441		30		.077	
35		.404		35		.077	
40		.386		40		.069	
45		.351		45		.069	
50		.334		50		.069	
55		.318		55		.069	
0800		.301		1100		.061	
05		.286		05		.061	
10		.256		10		.061	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 23  
 June 12, 1977  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1115		.061		1145		.048	
20		.054		50		.048	
25		.054		55		.048	
30		.054		1200		.048	
35		.054		05		.042	
40		.054					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

June 12, 1977

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.00	Total Runoff: 0.64 inches
0.6	- 2 days	- 0.32	Ppt. Adj. Factor: 1.00
2.7	- 5 days	- 0.81	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/12							
0500				0800		.227	
05	.1			05		.200	
10				10		.200	
15	.1			15		.175	
20	.1			20		.162	
25	.1			25		.151	
30				30		.140	
35				35		.129	
40				40		.129	
45	.2	.025		45		.118	
50		.036		50		.108	
55		.108		55		.108	
0600	.1	.213		0900		.099	
05		.334		05		.099	
10	.1	.422		10		.093	
15	.1	.521		15		.093	
20		.635		20		.085	
25		.712		25		.085	
30		.765		30		.077	
35		.765		35		.077	
40		.738		40		.069	
45		.712		45		.069	
50		.660		50		.069	
55		.611		55		.061	
0700		.564		1000		.061	
05		.521		05		.054	
10		.480		10		.054	
15		.441		15		.054	
20		.386		20		.054	
25		.351		25		.048	
30		.334		30		.048	
35	.1	.301		35		.048	
40		.286		40		.048	
45		.256		45		.048	
50		.241		50		.042	
55		.241		55		.042	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 26  
 June 12, 1977  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1100		.042		1135		.036	
05		.042		40		.036	
10		.042		45		.036	
• 15		.036		50		.036	
20		.036		55		.036	
25		.036		1200		.030	
30		.036					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 31

June 12, 1977

• Antecedent

Rainfall                      Runoff

0.0    - 1 day    - 0.00

0.8    - 2 days    - 0.00

2.5    - 5 days    - 0.08

Total Runoff: 0.99 inches

Ppt. Adj. Factor: 1.00

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/12							
0515	.1			0815		.256	
20	.3			20		.241	
25	.2	.025		25		.227	
30	.2	.042		30		.213	
35		.069		35		.200	
40	.1	.118		40		.187	
45	.1	.256		45		.187	
50	.2	.521		50		.175	
55		.686		55		.162	
0600		.712		0900		.151	
05	.1	.712		05		.151	
10	.1	.738		10		.140	
15		.765		15		.140	
20		.820		20		.129	
25	.1	.907		25		.129	
30		.937		30		.118	
35		.968		35		.118	
40	.1	.968		40		.118	
45		.937		45		.108	
50		.878		50		.108	
55		.793		55		.099	
0700		.738		1000		.099	
05		.686		05		.093	
10		.635		10		.093	
15		.611		15		.085	
20		.564		20		.077	
25		.521		25		.077	
30		.480		30		.077	
35		.441		35		.069	
40		.422		40		.069	
45	.1	.404		45		.061	
50		.386		50		.061	
55		.351		55		.061	
0800		.318		1100		.061	
05		.301		05		.054	
10		.286		10		.054	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 31  
 June 12, 1977  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1115		.054		1140		.048	
20		.054		45		.048	
25		.048		50		.048	
30		.048		55		.042	
35		.048					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 32

June 12, 1977

Antecedent  
Rainfall      Runoff  
0.0 - 1 day - 0.00  
0.8 - 2 days - 0.40  
2.5 - 5 days - 0.48

Total Runoff: \*1.42 inches  
Ppt. Adj. Factor: 1.00

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/12							
0515	.1			0815		.227	
20	.3			20		.213	
25	.2	.020		25		.200	
30	.2	.118		30		.187	
35		.635		35		.175	
40	.1	1.194		40		.162	
45	.1	1.264		45		.151	
50	.2	1.335		50		.140	
55		2.474		55		.129	
0600		1.917		0900		.129	
05	.1	1.917		05		.118	
10	.1	1.824		10		.108	
15		1.690		15		.099	
20		1.478		20		.093	
25	.1	1.409		25		.093	
30		1.372		30		.085	
35		1.335		35		.077	
40	.1	1.229		40		.077	
45		1.127		45		.069	
50		.998		50		.069	
55		.878		55		.061	
0700		.793		1000		.061	
05		.712		05		.054	
10		.635		10		.054	
15		.564		15		.054	
20		.521		20		.048	
25		.461		25		.048	
30		.422		30		.048	
35		.386		35		.042	
40		.368		40		.042	
45	.1	.334		45		.042	
50		.334		50		.042	
55		.301		55		.042	
0800		.286		1100		.042	
05		.256		05		.042	
10		.241		10		.042	

# INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 32

June 12, 1977

(Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1115		.042		1140		.036	
20		.036		45		.036	
25		.036		50		.036	
30		.036		55		.036	
35		.036		1200		.030	

\*Gage malfunction. C.F.S. values for period 0545-0550, 0600-0625 have been adjusted with WS 35. Values may be low.

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 34

June 12, 1977

Antecedent  
Rainfall                  Runoff  
0.0 - 1 day - 0.00  
0.8 - 2 days - 0.00  
2.5 - 5 days - 0.00

Total Runoff: 0.61 inches

Ppt. Adj. Factor: 1.00

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/12							
0515	.1			0815		.151	
20	.3			20		.151	
25	.2			25		.151	
30	.2			30		.151	
35				35		.151	
40	.1			40		.151	
45	.1			45		.162	
50	.2			50		.162	
55				55		.175	
0600				1900		.175	
05	.1			05		.175	
10	.1			10		.175	
15				15		.175	
20				20		.175	
25	.1			25		.175	
30				30		.175	
35				35		.175	
40	.1			40		.175	
45				45		.175	
50		.016		50		.162	
55		.093		55		.162	
0700		.118		1000		.162	
05		.151		05		.162	
10		.175		10		.151	
15		.200		15		.151	
20		.200		20		.151	
25		.200		25		.151	
30		.187		30		.140	
35		.187		35		.140	
40		.187		40		.140	
45	.1	.175		45		.140	
50		.175		50		.129	
55		.175		55		.129	
0800		.162		1100		.129	
05		.162		05		.129	
10		.162		10		.118	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
Watershed 34  
June 12, 1977  
(Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1115		.118		1440		.069	
20		.118		45		.069	
25		.118		50		.069	
30		.108		55		.069	
35		.108		1500		.069	
40		.108		05		.069	
45		.108		10		.069	
50		.099		15		.069	
55		.099		20		.061	
1200		.099		25		.061	
05		.099		30		.061	
10		.099		35		.061	
15		.093		40		.061	
20		.093		45		.061	
25		.093		50		.061	
30		.093		55		.061	
35		.093		1600		.061	
40		.093		05		.061	
45		.085		10		.061	
50		.085		15		.061	
55		.085		20		.061	
1300		.085		25		.061	
05		.085		30		.061	
10		.085		35		.061	
15		.085		40		.061	
20		.085		45		.061	
25		.085		50		.061	
30		.077		55		.061	
35		.077		1700		.061	
40		.077		05		.061	
45		.077		10		.061	
50		.077		15		.061	
55		.077		20		.061	
1400		.077		25		.061	
05		.077		30		.061	
10		.077		35		.061	
15		.077		40		.061	
20		.069		45		.061	
25		.069		50		.061	
30		.069		55		.061	
35		.069		1800		.054	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 35

June 12, 1977

Antecedent

Rainfall                      Runoff

0.0 - 1 day - 0.00

0.8 - 2 days - 0.00

2.5 - 5 days - 0.41

Total Runoff: 1.10 inches

Ppt. Adj. Factor: 1.00

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/12							
0520	.1	.004		0820		.162	
25		.030		25		.151	
30	.3	.213		30		.151	
35	.1	.334		35		.140	
40		.422		40		.129	
45	.1	.635		45		.118	
50	.1	1.062		50		.108	
55	.1	1.264		55		.108	
0600		1.335		0900		.099	
05		1.446		05		.093	
10		1.446		10		.085	
15	.1	1.409		15		.085	
20		1.372		20		.077	
25	.1	1.335		25		.077	
30		1.299		30		.077	
35	.1	1.229		35		.069	
40		1.062		40		.069	
45		.937		45		.061	
50		.820		50		.061	
55		.738		55		.054	
0700		.660		1000		.054	
05	.1	.564		05		.048	
10		.500		10		.048	
15		.422		15		.048	
20		.368		20		.042	
25		.334		25		.042	
30		.318		30		.042	
35		.286		35		.036	
40		.270		40		.036	
45		.256		45		.036	
50		.241		50		.036	
55		.227		55		.030	
0800		.213		1100		.030	
05		.200		05		.030	
10		.187		10		.030	
15		.175		15		.025	

INDIVIDUAL STORM RAINFALL/RUNOFF RECORD  
 Watershed 35  
 June 12, 1977  
 (Continued)

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
1120		.025		1220		.016	
25		.025		25		.016	
30		.025		30		.016	
35		.025		35		.012	
40		.020		40		.012	
45		.020		45		.012	
50		.020		50		.012	
55		.020		55		.012	
1200		.020		1300		.012	
05		.016		05		.012	
10		.016		10		.009	
15		.016					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 36

June 12, 1977

Antecedent							
Rainfall		Runoff					
0.0	- 1 day	-	0.00				
0.8	- 2 days	-	0.00				
2.5	- 5 days	-	0.00				
				Total Runoff: 0.28 inches			
				Ppt. Adj. Factor: 1.00			
Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/12							
0520	.1			0820		.129	
25				25		.118	
30	.3			30		.108	
35	.1			35		.108	
40				40		.099	
45	.1			45		.099	
50	.1			50		.099	
55	.1			55		.093	
0600				0900		.093	
05		.001		05		.085	
10	.1	.016		10		.077	
15	.1	.036		15		.077	
20		.042		20		.077	
25	.1	.048		25		.069	
30		.061		30		.069	
35	.1	.099		35		.069	
40		.162		40		.069	
45		.213		45		.061	
50		.241		50		.061	
55		.256		55		.061	
1700		.270		1000		.061	
05	.1	.270		05		.061	
10		.270		10		.054	
15		.270		15		.054	
20		.270		20		.054	
25		.241		25		.048	
30		.227		30		.048	
35		.213		35		.042	
40		.213		40		.042	
45		.200		45		.042	
50		.187		50		.036	
55		.140		55		.036	
0800		.162		1100		.036	
05		.162		05		.036	
10		.151		10		.036	
15		.140		15		.030	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 13

June 25, 1978

Antecedent			
Rainfall		Runoff	
0.7	- 1 day -	0.00	Total Runoff: 0.16 inches
0.7	- 2 days -	0.00	Ppt. Adj. Factor: 1.50
0.7	- 5 days -	0.00	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/25							
1250	.3			1415		.108	
55	.1			20		.099	
1300				25		.085	
05		.009		30		.077	
10		.108		35		.061	
15		.118		40		.061	
20		.118		45		.048	
25		.151		50		.042	
30		.270		55		.036	
35		.334		1500		.030	
40		.334		05		.030	
45		.334		10		.030	
50		.318		15		.025	
55		.270		20		.025	
1400		.227		25		.025	
05		.213		30		.020	
10		.200					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 14

June 25, 1978

Antecedent			
Rainfall		Runoff	
0.7	- 1 day	- 0.22	Total Runoff: 0.33 inches Ppt. Adj. Factor: 1.50
0.7	- 2 days	- 0.22	
0.7	- 5 days	- 0.22	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/25							
1250		.006		1350		.042	
55	.1	.318		55		.030	
1300	.2	1.446		1400		.025	
05	.1	1.824		05		.020	
10		1.690		10		.016	
15		1.229		15		.016	
20		.849		20		.012	
25		.500		25		.012	
30		.318		30		.012	
35		.175		35		.012	
40		.099		40		.012	
45		.061		45		.009	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 15

June 25, 1978

Antecedent			
Rainfall		Runoff	
0.7	- 1 day	- 0.11	Total Runoff: 0.34 inches Ppt. Adj. Factor: 1.50
0.7	- 2 days	- 0.11	
0.7	- 5 days	- 0.11	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/25							
1255	.1	.012		1400		.093	
1300	.2	.036		05		.061	
05	.1	.564		10		.042	
10		1.062		15		.036	
15		1.229		20		.030	
20		1.229		25		.025	
25		1.094		30		.025	
30		.820		35		.025	
35		.587		40		.020	
40		.441		45		.020	
45		.334		50		.020	
50		.241		55		.020	
55		.140		1500		.016	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

June 25, 1978

Antecedent

Rainfall

Runoff

0.9 - 1 day - 0.04

0.9 - 2 days - 0.04

1.0 - 5 days - 0.04

Total Runoff: 0.21 inches

Ppt. Adj. Factor: 1.14

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/25							
1255	.2			1405		.129	
1300	.3			10		.099	831
05	.1	.016		15		.085	
10		.020	1847	20		.069	690
15		.256		25		.077	
20		.461	1544	30		.048	642
25		.712		35		.048	
30		.765	1082	40		.030	597
35		.738		45		.025	
40		.422	874	50		.025	586
45	.1	.334		55		.025	
50		.256	736	1500		.025	582
55		.187		05		.020	
1400		.151	754				

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 23

June 25, 1978

Antecedent			Total Runoff: 0.13 inches Ppt. Adj. Factor: 1.14
Rainfall		Runoff	
0.9	- 1 day -	0.00	
0.9	- 2 days -	0.00	
1.0	- 5 days -	0.00	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/25							
1255	.2			1515		.048	
1300	.3			20		.042	445
05	.1	.009		25		.036	
10		.077	236	30		.036	508
15		.108		35		.036	
20		.108	576	40		.036	441
25		.108		45		.030	
30		.108	920	50		.030	
35		.108		55		.030	
40		.108	696	1600		.030	407
45	.1	.108		05		.025	
50		.108		10		.025	447
55		.108		15		.025	
1400		.108		20		.025	414
05		.108		25		.025	
10		.108	686	30		.025	402
15		.108		35		.025	
20		.108	760	40		.020	411
25		.108		45		.020	
30		.108	653	50		.020	
35		.093		55		.020	
40		.085	586	1700		.020	
45		.077		05		.020	
50		.069	549	10		.020	
55		.061		15		.020	
1500		.054	303	20		.020	
05		.054		25		.020	
10		.048	472	30		.016	

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 26

June 25, 1978

Antecedent		
Rainfall		Runoff
0.9	- 1 day -	0.00
0.9	- 2 days -	0.00
1.0	- 5 days -	0.00

Total Runoff: 0.11 inches

Ppt. Adj. Factor: 1.14

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/25							
1255	.1			1420		.061	192
1300	.2			25		.054	
05	.1	.002		30		.048	171
10		.077	277	35		.042	
15		.200		40		.036	
20		.241	277	45		.030	
25		.256		50		.030	154
30		.256	232	55		.025	
35		.227		1500		.025	182
40		.213	228	05		.020	
45		.187		10		.020	181
50		.162	219	15		.016	
55		.140		20		.016	
1400		.108	210	25		.016	
05		.093		30		.012	246
10		.077		35		.012	
15		.069		40		.012	153

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 14

June 10, 1980

Antecedent

Rainfall                      Runoff

0.0    - 1 day    -    0.00

0.0    - 2 days    -    0.00

0.8    - 5 days    -    0.19

Total Runoff: 0.53 inches

Ppt. Adj. Factor: 1.14

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/10							
1920	.1			2025		.093	
25	.2	.009		30		.069	
30	.2	.301		35		.048	
35	.2	1.409		40		.036	
40		2.111		45		.030	
45		2.262		50		.020	
50		2.013		55		.016	
55		1.603		2100		.016	
2000		1.161		05		.012	
05		.765		10		.012	
10		.441		15		.012	
15		.256		20		.009	
20		.140					

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 15

June 10, 1980

Antecedent			
Rainfall		Runoff	
0.0	- 1 day	- 0.00	Total Runoff: *0.43 inches
0.0	- 2 days	- 0.00	Ppt. Adj. Factor: 1.14
0.9	- 5 days	- 0.14	

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/10							
1920	.1			2020	.1	.765	
25	.2			25		.441	
30	.2			30		.256	
35	.2	.012		35		.140	
40		.301		40		.093	
45		.849		45		.069	
50		1.264		50		.048	
55		1.409		55		.036	
2000		1.372		2100		.030	
05		1.194		05		.020	
10		1.030		10		.016	
15		.907					

\*Float stuck. Readings after 2015 are reconstructed from water level 14.  
Values may be low.

Table 2.

## INDIVIDUAL STORM RAINFALL/RUNOFF RECORD

Watershed 22

June 15, 1980

Antecedent	
Rainfall	Runoff
0.1 - 1 day	-- 0.00
0.1 - 2 days	-- 0.00
0.6 - 5 days	-- 0.00

Total Runoff: 0.09 inches

Ppt. Adj. Factor: 1.20

Time	Rainfall	Runoff	Sediment	Time	Rainfall	Runoff	Sediment
	Inches	CFS	PPM		Inches	CFS	PPM
6/15							
1530	.1			1625		.118	
35				30		.099	
40	.1			35		.085	
45	.2	.016		40		.069	
50		.140		45		.061	
55	.1	.175		50		.054	
1600		.256		55		.048	
05		.270		1700		.048	
10		.241		05		.042	
15		.187		10		.042	
20		.151		15		.036	



## INTRODUCTION

Table 3. Summary of Annual Maximum Discharge and Runoff, 1969-1980 Water Years.

Table 3 is a summary of maximum discharge (cfs) and maximum runoff (inches) from rain storms in each water year (Oct. 1 to Sept. 30) for the period 1969-1980. Snow storms and rain/snow storms were excluded from this tabulation. Date and time are those of the runoff event. Duration is apparent from the clock-hour time data because most storms lasted less than 24 hours. Exception to this is the storm of June 13-14, 1976 on watersheds 14 and 15 which lasted more than 24 hours. "None" indicates no runoff for a particular water year and "No Record" indicates a recorder malfunction during a probable maximum event. Precipitation amounts are those recorded by the rain gage nearest the watershed. Precipitation recorded between midnight and 2 hours before runoff began is listed as storm day antecedent precipitation, and that recorded from 2 hours before runoff began until runoff ended is listed as storm precipitation. Precipitation amounts marked with an asterisk have been adjusted by multiplying the watershed rain gage catch by the ratio of a pit gage catch to a pit gage companion gage catch for the storm period.



Table 3. SUMMARY OF MAXIMUM DISCHARGE AND MAXIMUM RUNOFF STORMS FROM RAINFALL FOR EACH WATERSHED  
1969 - 1980 WATER YEARS, EKALAKA, MONTANA

Maximum Flow Storm									
Date	Time	Precipitation			Maximum Runoff Storm				
		Peak Total	Storm	Storm Day	Time	Total	Peak	Precipitation	
		Flow Runoff	Inches	Antecedent		Runoff	Flow	Storm	Storm Day
		CFS	Inches	Inches	Date	Inches	CFS	Inches	Antecedent
Watershed No. 13 - Furrowed									
69		None			69	None			
70		None			70	None			
6/16/71	0535-1040	.16	1.2*	.1*	6/16/71	.18	.14	.7*	1.3*
7/22/72	0200-0400	No Record	1.5*	0	7/22/72	No Record		1.5*	0
6/18/73	1335-2355	.26	1.2	.5	6/18/73	.61	.26	1.2	.5
74		None			74	None			
6/25/75	1900-0355	.03	1.6	0	6/25/75	.12	.03	1.6	0
6/22/76	2120-0055	.69	.9	0	6/14/76	.99	.30	1.6	0
6/12/77	0525-1035	1.69	1.5	0	6/12/77	1.23	1.69	1.5	0
7/31/78	0340-0710	1.06	.8*	0	10/1/77	.96	.18	1.0*	0
79		None			79	None			
6/10/80	1945-2130	.30	.8*	0	6/10/80	.14	.30	.8*	0
Watershed No. 14 - Native									
7/23/69	1240-1410	4.10	1.1*	0	69	.60	4.10	1.1*	0
5/7/70	1700-2000	No record	2.7*	0	5/7/70	No record		2.7*	0
6/16/71	0340-0625	3.30	1.2*	0	9/4/71	.82	.48	2.8*	.1*
7/22/72	0120-0330	2.06	1.5*	0	7/22/72	.64	2.06	1.5*	0
9/23/73	2050-2145	1.30	.6*	0	6/18/73	1.00	.33	1.2*	.6*
7/3/74	0535-1130	.77	.9*	0	7/3/74	.57	.77	.9*	0
6/25/75	1835-2320	1.69	1.3	0	6/25/75	.82	1.69	1.3	0
6/22/76	2115-2310	3.05	1.0	0	6/13/76	1.59	.33	2.1	0
6/13/77	1945-2355	2.31	1.1*	0	6/12/77	1.32	2.21	1.5*	0
7/18/78	2045-2255	2.26	1.3*	0	10/1/77	1.30	.44	1.1*	0
7/25/79	0835-1615	.24	.8*	0	6/7/79	.27	.19	.6*	0
6/10/80	1925-2120	2.26	.9*	0	6/10/80	.53	2.26	.9*	0

\*indicates adjusted rainfall

Table 3. SUMMARY OF MAXIMUM DISCHARGE AND MAXIMUM RUNOFF STORMS FROM RAINFALL FOR EACH WATERSHED  
1969 - 1980 WATER YEARS, EKALAKA, MONTANA

Maximum Flow Storm										Maximum Runoff Storm									
Date	Time	Precipitation				Peak Flow CFS	Total Runoff Inches	Date	Time	Total Runoff Inches	Peak Flow CFS	Precipitation				Storm Antecedent Inches	Storm Day		
		Storm Inches	Storm Antecedent Inches	Storm Day	Storm Antecedent Inches							Storm Day	Storm Antecedent Inches	Storm Day					
Watershed No. 15 - Native																			
7/23/69	1245-1520	.34	1.1*	0	7/23/69	2.93	.34	1.1*	0	1245-1520	2.93	1.1*	0						
5/7/70	1705-2000	1.23	2.7*	0	5/7/70	5.76	1.23	2.7*	0	1705-2000	5.76	2.7*	0						
6/16/71	0300-0600	No record	1.2*	0	9/4/71	No record	.48	.33	.7*	2105-0410	.33	2.3*	.7*						
7/22/72	0100-0400	No record	1.5*	0	7/22/72	No record	No record	1.5*	0	0100-0400	No record	1.5*	0						
9/23/73	2050-2140	.85	.6*	0	6/18/73	.30	.99	.30	.6*	0945-2310	.30	1.1*	.6*						
7/3/74	0730-1135	.64	.9*	0	7/3/74	.64	.43	.64	.9*	0730-1135	.64	.9*	0						
6/25/75	1830-2340	1.19	1.3	0	6/25/75	1.19	.57	1.19	1.3	1830-2340	1.19	1.3	0						
6/22/76	2315-0140	2.47	1.1	0	6/13/76	.33	1.40	.33	2.1	2000-2055	.33	2.1	0						
6/12/77	0515-0950	1.82	1.5*	0	6/12/77	1.82	1.20	1.82	1.5*	0515-0950	1.82	1.5*	0						
7/31/78	0340-0655	1.60	.8*	0	10/1/77	.29	1.01	.29	1.1*	0000-2155	.29	1.1*	0						
9/10/79	1020-1140	.11	.6*	0	6/7/79	.85	.16	.85	.4*	0100-0735	.85	.4*	0						
6/10/80	1935-2110	1.41	.9*	0	6/10/80	1.41	.43	1.41	.9*	1935-2110	1.41	.9*	0						
Watershed No. 16 - Furrowed																			
69		None			69	None													
70		None			70	None													
71		None			71	None													
72		None			72	None													
6/19/73	0045-1515	.12	.8*	0	6/19/73	.51	.51	.12	.8*	0045-1515	.12	.8*	0						
74		None			74	None													
6/26/75	0335-1025	.13	1.2*		6/26/75	.22	.22	.13	1.2*	0335-1025	.13	1.2*	0						
6/14/76	1640-2055	.06	.5	1.0	6/14/76	.09	.09	.06	.5	1640-2055	.06	.5	1.0*						
6/12/77	0550-1330	.77	1.4*	0	6/12/77	.86	.86	.77	1.4*	0550-1330	.77	1.4*	0						
10/7/77	0405-1555	.11	.9	.3	10/7/77	.35	.35	.11	.9	0405-1555	.11	.9	.3						
79		None			79	None													
80		None			80	None													

\*indicates adjusted rainfall

Table 3. SUMMARY OF MAXIMUM DISCHARGE AND MAXIMUM RUNOFF STORMS FROM RAINFALL FOR EACH WATERSHED  
1969 - 1980 WATER YEARS, EKALAKA, MONTANA

Maximum Flow Storm				Maximum Runoff Storm				Precipitation			
Date	Time	Peak Total		Storm Antecedent		Date	Time	Total Runoff		Storm Antecedent	
		CFS	Inches	Storm	Inches			Inches	CFS	Inches	Inches
Watershed No. 21 - Furrowed											
69		None			69			None			
5/7/70	1745-2255	.42	.22	3.0*	0	5/7/70	1745-2255	.22	.42	3.0*	0
71		None			71			None			
72		None			72			None			
73		None			73			None			
74		None			74			None			
75		None			75			None			
76		None			76			None			
77		None			77			None			
78		None			78			None			
79		None			79			None			
80		None			80			None			
Watershed No. 22 - Native											
7/15/69	1540-1650	2.01	.47	1.3	0	7/15/69	1540-1650	.47	2.01	1.3	0
5/7/70	1720-1955	4.85	1.52	3.0*	0	5/7/70	1720-1955	1.52	4.85	3.0*	0
6/16/71	0510-0855	1.34	.45	1.3*	0	9/4/71	2100-0455	.68	.56	2.0*	.6*
7/22/72	0120-0400	.94	.30	1.7*	0	7/22/72	0120-0400	.30	.94	1.7*	0
6/2/73	1055-1800	.29	.35	.5*	5	6/18/73	1005-2320	.99	.29	1.3*	.6*
5/20/74	0030-0355	.44	.20	.7*	.2	5/20/74	0030-0355	.20	.44	.7*	.2*
6/26/75	0225-0925	.42	.55	.7*	0	6/26/75	0225-0925	.55	.42	.7*	0
6/22/76	2320-0020	.42	.16	.8	0	6/14/76	0710-2135	.62	.30	1.3	.3
6/12/77	0535-1010	1.03	.59	.9*	0	6/12/77	0535-1010	.59	1.03	.9*	0
7/31/78	0355-0605	1.06	.39	.9*	0	10/7/77	0055-1355	.79	.35	1.3	0
79		None				79		None			
6/15/80	1545-1715	.27	.09	.6*	0	6/15/80	1545-1715	.09	.27	.6*	0

\*indicates adjusted rainfall

Table 3. SUMMARY OF MAXIMUM DISCHARGE AND MAXIMUM RUNOFF STORMS FROM RAINFALL FOR EACH WATERSHED  
1969 - 1980 WATER YEARS, EKALAKA, MONTANA

Maximum Flow Storm				Maximum Runoff Storm				Precipitation			
Date	Time	Peak Total		Storm Antecedent		Date	Time	Total Runoff		Storm Day	
		CFS	Inches	Flow	Inches			CFS	Inches	Flow	Inches
Watershed 23 - Native											
7/15/69	1545-1745	1.09	.36	1.3	0	7/15/69	1545-1745	1.09	1.3	0	0
5/7/70	1740-2005	3.62	1.24	3.0*	0	5/7/70	1740-2005	3.62	3.0*	0	0
6/16/71	0510-0845	.94	.44	1.3*	0	9/4/71	2155-0515	.52	2.0*	.6*	.6*
7/22/72	0130-0505	.35	.25	1.7*	0	7/22/72	0130-0505	.35	1.7*	0	0
6/18/73	1040-2305	.27	.85	1.3*	.6*	6/18/73	1040-2305	.27	1.3*	.6*	.6*
5/20/74	0050-0450	.20	.17	.7*	.2	5/29/74	2335-1005	.05	.4*	.3*	.3*
6/26/75	0225-1155	.44	.72	.7*	0	6/26/75	0225-1155	.44	.7*	0	0
6/14/76	0720-0150	.26	.71	1.3	.3	6/14/76	0720-0150	.26	1.3	.3	.3
6/12/77	0550-1825	.85	.78	.9*	0	6/12/77	0550-1825	.85	.9*	0	0
10/1/77	0055-2240	.13	.64	1.0*	0	10/7/77	0145-1655	.12	1.3	0	0
79		None				79		None			
80		None				80		None			
Watershed No. 24 - Furrowed											
69		None				69		None			
5/7/70	1755-2015	.18	.07	3.1*	0	5/7/70	1755-2015	.18	3.1*	0	0
71		None				71		None			
72		None				72		None			
73		None				73		None			
74		None				74		None			
75		None				75		None			
76		None				76		None			
77		None				77		None			
78		None				78		None			
79		None				79		None			
80		None				80		None			

\*indicates adjusted rainfall

Table 3. SUMMARY OF MAXIMUM DISCHARGE AND MAXIMUM RUNOFF STORMS FROM RAINFALL FOR EACH WATERSHED  
1969 - 1980 WATER YEARS, EKALAKA, MONTANA

Maximum Flow Storm				Maximum Runoff Storm				
Date	Time	Peak Total		Precipitation		Total Runoff	Precipitation	
		Flow	CFS	Storm	Inches		Flow	Storm
Watershed No. 25 - Furrowed								
69		None				None		
5/7/70	1745-2255	.37	.36	3.0*	0	5/8/70	.10	.6*
71		None				None		0
72		None				None		
73		None				None		
74		None				None		
75		None				None		
76		None				None		
77		None				None		
78		None				None		
79		None				None		
80		None				None		
Watershed No. 26 - Native								
7/15/69	1545-1950	.97	.39	1.3	0	7/15/69	.97	1.3
5/7/70	1730-2010	3.96	1.35	2.9*	0	5/7/70	3.96	2.9*
6/16/71	0515-0920	1.16	.48	1.5*	0	9/4/71	.44	1.7*
7/22/72	0130-0500	.33	.18	1.5*	0	7/22/72	.33	1.5*
6/18/73	1145-0010	.26	.66	1.0*	.6	6/18/73	.26	1.0*
5/20/74	0110-0435	.09	.07	.7*	.2	5/20/74	.09	.7*
6/26/75	0235-1140	.33	.46	.8*	0	6/26/75	.33	.8*
6/14/76	0420-2220	.29	.70	1.5	.1*	6/14/76	.29	1.5
6/12/77	0545-1200	.77	.64	1.0*	0	6/12/77	.77	1.0*
7/18/78	2100-2335	.44	.15	1.3*	0	10/7/77	.23	1.1
79		None				79	None	
80		None				80	None	

\*indicates adjusted rainfall

Table 3. SUMMARY OF MAXIMUM DISCHARGE AND MAXIMUM RUNOFF STORMS FROM RAINFALL FOR EACH WATERSHED  
1969 - 1980 WATER YEARS, EKALAKA, MONTANA

Maximum Flow Storm				Maximum Runoff Storm				Precipitation			
Date	Time	Peak Total		Storm Antecedent	Date	Time	Total		Precipitation		
		Flow	Runoff				Runoff	Peak	Storm	Day	
		CFS	Inches	Inches			Inches	CFS	Inches	Storm	Antecedent
Watershed No. 31 - Furrowed											
69		None			69		None				
5/7/70	1740-1955	1.73	1.54**	2.0*	5/7/70	1700-1955	1.54**	1.73	2.0*	0	0
6/16/71	0520-1610	.19	.43	1.5*	6/16/71	0520-1610	.43	.19	1.5*	0	0
72		None			72		None				
6/19/73	0005-1305	.08	.27	.6*	6/19/73	0005-1305	.27	.08	.6*	0	0
74		None			74		None				
6/26/75	0230-1130	.08	.17	.5	6/26/75	0230-1130	.17	.08	.5	0	0
6/22/76	2120-0045	.18	.13	1.3	6/22/76	2120-0045	.13	.18	1.3	0	0
6/12/77	0525-1155	.97	.99	1.7*	6/12/77	0525-1155	.99	.97	1.7*	0	0
10/7/77	0355-1725	.08	.31	.9	10/7/77	0355-1725	.31	.08	.9	.3	.3
79		None			79		None				
80		None			80		None				
Watershed No. 32 - Native											
6/25/69	1440-2240	.08	.18	.5*	6/25/69	1440-2240	.18	.08	.5*	.8*	.8*
5/7/70	1730-2325	2.70	1.06	2.0*	5/7/70	1730-2325	1.06	2.70	2.0*	0	0
9/4/71	2200-0540	.85	.89	2.2*	9/4/71	2200-0540	.89	.85	2.2*	.8*	.8*
7/22/72	0125-0755	.79	.59	1.5*	7/22/72	0125-0755	.59	.79	1.5*	0	0
5/26/73	2215-1655	.30	.86	.9	5/26/73	2215-1655	.86	.30	.9	.8	.8
7/3/74	0730-1320	.11	.16	.8	7/3/74	0730-1320	.16	.11	.8	0	0
6/26/75	0250-0940	.30	.48	.5	6/26/75	0250-0940	.48	.30	.5	0	0
6/22/76	2115-0155	1.26	.55	1.4	6/22/76	2115-0155	.55	1.26	1.4	0	0
6/12/77	0525-1120	2.47	1.42	1.7*	6/12/77	0525-1120	1.42	2.47	1.7*	0	0
10/7/77	0225-1555	.29	.69	1.2	10/1/77	0055-2340	.82	.14	.6*	0	0
79		None			79		None				
80		None			80		None				

\*indicates adjusted rainfall.

\*\*indicates flume flooded

Table 3. SUMMARY OF MAXIMUM DISCHARGE AND MAXIMUM RUNOFF STORMS FROM RAINFALL FOR EACH WATERSHED  
1969 - 1980 WATER YEARS, EKALAKA, MONTANA

Maximum Flow Storm										Maximum Runoff Storm									
Date	Time	Peak Total			Precipitation			Date	Time	Total			Precipitation						
		Flow	Runoff	Inches	Storm	Inches	Storm Day			Runoff	Flow	Peak	Storm	Antecedent	Storm Day				
		CFS	Inches	Inches	Inches	Inches				•Inches	CFS	Inches	Inches						
Watershed No. 33 - Native																			
6/25/69	1505-2220	.08	.15	.5*	.8*	6/25/69	1505-2220		.15	.08	.5*	.8*							
5/7/70	1740-1955	2.37	.71	1.9*	0	5/7/70	1740-1955		.71	2.37	1.9*	0							
9/4/71	2220-0550	.82	.82	2.1*	1.0*	9/4/71	2220-0550		.82	.82	2.1*	1.0*							
7/22/72	0140-0700	.69	.52	1.5*	0	7/22/72	0140-0700		.52	.69	1.5*	0							
6/18/73	1225-2330	.29	.66	1.0*	.8*	5/26/73	2230-1340		.78	.29	.9	.8							
7/3/74	0850-1345	.12	.13	.8	0	7/3/74	0850-1345		.13	.12	.8	0							
6/26/75	0225-1020	.29	.47	.5	0	6/26/75	0225-1020		.47	.29	.5	0							
6/22/76	2115-0045	1.26	.50	1.2	0	6/14/76	0845-0230		.88	.30	1.3	.4							
6/13/77	1920-0020	1.37	.62	1.1*	.9*	6/13/77	1920-0020		.62	1.37	1.1*	.9*							
10/7/77	0225-2255	.32	.89	1.2	0	10/1/77			.98	.18	.6*	0							
79		None				79			None										
80		None				80			None										
Watershed No. 34 - Furrowed																			
69		None				69			None										
70		None				70			None										
6/16/71	2305-0225	.04	.05	.8*	1.4*	71			.05	.04	.8*	1.4*							
72		None				72			None										
73		None				73			None										
74		None				74			None										
75		None				75			None										
76		None				76			None										
6/12/77	0655-1805	.20	.61	1.5*	0	6/12/77	0655-1805		.61	.20	1.5*	0							
78		None				78			None										
79		None				79			None										
80		None				80			None										

\*indicates adjusted rainfall

Table 3. SUMMARY OF MAXIMUM DISCHARGE AND MAXIMUM RUNOFF STORMS FROM RAINFALL FOR EACH WATERSHED  
1969 - 1980 WATER YEARS, EKALAKA, MONTANA

Maximum Flow Storm										Maximum Runoff Storm																			
Date	Time	Precipitation				Peak Total Flow CFS	Inches	Storm Inches	Storm Day Antecedent	Date	Time	Precipitation				Total Runoff Inches	Peak Flow CFS	Storm Inches	Storm Day Antecedent										
		Watershed No. 35 - Native										Watershed No. 36 - Furrowed																	
6/25/69	1500-2300	No record	.5*	.8*	6/25/69	1500-2300	No record	.5*	.8*	6/25/69	1500-2300	No record	.5*	.8*	6/25/69	1500-2300	No record	.5*	.8*										
5/7/70	1735-1930	1.82	.47	1.9*	0	5/7/70	1735-1930	.47	1.82	1.9*	0	5/7/70	1735-1930	.47	1.82	1.9*	0	5/7/70	1735-1930										
9/4/71	2215-0515	.69	.65	2.1*	1.0*	9/4/71	2215-0515	.65	.69	2.1*	1.0*	9/4/71	2215-0515	.65	.69	2.1*	1.0*	9/4/71	2215-0515										
7/22/72	0200-0700	No record	1.5*	0	7/22/72	0200-0700	No record	1.5*	0	7/22/72	0200-0700	No record	1.5*	0	7/22/72	0200-0700	No record	1.5*	0										
6/18/73	1055-2345	.21	.53	1.1*	.6*	5/26/73	2330-1445	.54	.20	.9	.8	5/26/73	2330-1445	.54	.20	.9	.8	5/26/73	2330-1445										
7/3/74	0835-1300	.08	.08	.8	0	7/3/74	0835-1300	.08	.08	.8	0	7/3/74	0835-1300	.08	.08	.8	0	7/3/74	0835-1300										
6/26/75	0225-0935	.19	.28	.6	0	6/26/75	0225-0935	.28	.19	.6	0	6/26/75	0225-0935	.28	.19	.6	0	6/26/75	0225-0935										
6/22/76	2110-0050	.64	.33	1.1	0	6/14/76	0900-0045	.54	.20	1.2	.4	6/14/76	0900-0045	.54	.20	1.2	.4	6/14/76	0900-0045										
6/12/77	0520-1310	1.45	1.10	1.3*	0	6/12/77	0520-1310	1.10	1.45	1.3*	0	6/12/77	0520-1310	1.10	1.45	1.3*	0	6/12/77	0520-1310										
10/7/77	0100-2300	No record	1.2	0	10/1/77	0100-2255	0100-2255	.80	.13	1.0*	0	10/1/77	0100-2255	.80	.13	1.0*	0	10/1/77	0100-2255										
79		None				79		None				79		None				79											
80		None				80		None				80		None				80											
69		None				69		None				69		None				69											
5/7/70	1810-2135	.06	.07	1.9*	0	5/8/70	0805-1525	.14	.05	.4	.1	5/8/70	0805-1525	.14	.05	.4	.1	5/8/70	0805-1525										
6/16/71	2225-0250	.05	.08	.8*	1.4*	6/16/71	2225-0250	.08	.05	.8*	1.4*	6/16/71	2225-0250	.08	.05	.8*	1.4*	6/16/71	2225-0250										
72		None				72		None				72		None				72											
73		None				73		None				73		None				73											
74		None				74		None				74		None				74											
75		None				75		None				75		None				75											
6/14/76	1805-2055	.03	.04	.2	1.5	6/14/76	1805-2055	.04	.03	.2	1.5	6/14/76	1805-2055	.04	.03	.2	1.5	6/14/76	1805-2055										
6/12/77	0605-1130	.27	.28	1.3*	0	6/12/77	0605-1130	.28	.27	1.3*	0	6/12/77	0605-1130	.28	.27	1.3*	0	6/12/77	0605-1130										
10/7/77	0250-1155	.04	.15	1.2	0	10/7/77	0250-1155	.15	.04	1.2	0	10/7/77	0250-1155	.15	.04	1.2	0	10/7/77	0250-1155										
79		None				79		None				79		None				79											
80		None				80		None				80		None				80											

\*indicates adjusted rainfall

## INTRODUCTION

Table 4. Soil water content (volumetric percent) of the top four 1-foot soil profile increments - watershed summaries. Ekalaka, Montana, 1967-1980.

Table 4 is a summary of soil water content by volumetric percent of the top four 1-foot-soil profile increments for each watershed. Soil water was measured by the neutron scatter method in 1½-inch-diameter access tubes.

Access tubes were located on the upper and lower end of each watershed approximately 200 feet apart. The nonfurrowed watersheds had one tube at each location, and the furrowed watersheds had one tube on a ridge and one tube in a furrow at each location. The datum for each depth in the profile is an average of the soil water content of the upper and lower access tube locations.

Soil water measurements were started in the spring when frost was out of the ground and continued until freeze up in the fall. Soil water was measured sporadically during the summer in 1967, 1971, and 1975 to coincide with vegetation production measurements. Measurements were taken biweekly in 1972-74 and 1976-80.

The tables list the data by site for nonfurrowed watersheds; for furrows and ridges of furrowed watersheds; and average of furrows and ridges of furrowed watersheds.

The table lists the average volumetric percent for each 1-foot increment of soil profile for two tubes, and the average (P) of the four profile depths. The site mean is the average of each depth for all watersheds listed on that page. All means were calculated from profile values before rounding.



Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 1: Nonfurrowed Watersheds															Site Mean
	WS 14 <sup>1</sup>					WS 15										
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4		
	Date															
11-29-67	34	36	38	38	36	34	37	39	39	37	34	36	39	38	37	
3-28-68	34	36	39	38	37	32	38	39	39	37	33	37	39	39	37	
4-18-68	34	36	38	38	37	34	38	40	39	38	34	37	39	38	37	
7- 9-68	36	37	40	39	38	35	39	41	40	39	35	38	40	40	38	
7-20-68	35	37	39	39	37	35	38	40	40	38	35	38	40	39	38	
8-13-68	34	37	40	39	37	34	39	41	40	38	34	38	40	40	38	
8-28-68	35	39	40	40	39	33	40	42	41	39	34	40	41	40	39	
10-23-68	34	37	39	39	37	32	39	41	40	38	33	38	40	40	38	
4-23-69	35	36	38	38	37	35	39	41	40	39	35	38	39	39	38	
5-20-69	36	38	40	39	38	36	40	41	41	39	36	39	41	40	39	
7- 7-69	37	39	41	40	39	38	41	42	42	41	38	40	41	41	40	
8-12-69	34	38	39	39	38	35	40	41	40	39	34	39	40	40	38	
9-10-69	31	38	41	41	38	31	40	42	41	38	31	39	41	41	38	
5-20-70	40	40	41	40	40	39	41	43	42	41	39	40	42	41	41	
6-30-70	36	37	39	39	38	37	39	40	40	39	36	38	40	40	38	
7-27-70	38	42	43	43	42	36	40	41	41	40	37	41	42	42	41	
5- 4-71	41	41	41	41	41	39	41	40	42	40	40	41	41	41	41	
6- 3-71	43	43	41	42	42	40	42	43	42	42	41	42	42	42	42	
6-29-71	39	40	39	40	40	38	40	41	41	40	39	40	40	40	40	
7-21-71	36	40	41	41	40	35	40	42	41	40	35	40	42	41	40	
9- 9-71	38	40	41	41	40	36	41	42	41	40	37	41	41	41	40	

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1:									
	WS 14 <sup>1</sup>					Nonfurrowed Watersheds				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P
Date						WS 15				
	1	2	3	4	P	1	2	3	4	P
4- 6-72	43	41	41	41	41	42	41	43	41	42
5-16-72	43	40	40	40	41	42	41	42	41	41
6- 1-72	42	40	40	40	40	42	42	42	41	41
6-13-72	41	40	41	41	41	42	42	43	42	41
6-27-72	41	40	41	40	41	41	41	42	41	41
7-10-72	40	40	40	40	40	40	42	42	41	41
7-20-72	39	40	40	40	40	40	40	41	41	40
7-26-72	40	41	41	41	41	41	42	42	41	40
8-16-72	39	40	41	41	40	40	41	42	42	41
8-29-72	38	40	41	41	40	40	42	43	42	41
9-13-72	36	39	40	40	39	38	41	42	42	41
10- 4-72	36	39	40	40	39	38	41	42	42	41
4- 5-73	37	39	40	40	39	37	40	42	41	40
4-26-73	40	40	41	40	40	38	41	42	41	40
5-16-73	40	41	41	41	41	39	42	43	42	41
5-30-73	39	37	38	38	38	37	39	40	39	38
6-13-73	39	41	40	40	40	39	41	42	41	40
6-25-73	39	41	40	39	40	39	41	42	41	40
7- 2-73	38	38	39	41	39	39	42	42	41	40
7-24-73	35	41	40	40	39	37	41	42	42	40
8-14-73	34	40	41	41	39	37	42	44	42	40
8-28-73	37	40	40	40	39	40	41	42	42	40
9- 6-73	38	39	40	40	39	39	41	42	41	40
10- 3-73	39	40	41	40	40	40	42	43	42	41

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1:												
	WS 14 <sup>1</sup>					Nonfurrowed Watersheds WS 15					Site Mean		
	1		2		P <sup>2</sup>	1		2		P	1		P
	1	2	3	4		1	2	3	4		1	2	
Date													
4-17-74	40	39	40	40	40	41	42	43	42	42	40	41	41
5- 1-74	43	41	42	41	41	42	43	44	43	43	42	42	42
5-23-74	41	40	41	40	41	41	42	43	42	42	41	41	41
6- 5-74	42	42	42	41	42	42	42	43	43	42	42	42	42
6-19-74	41	41	43	44	42	43	43	43	44	43	42	42	43
7- 9-74	40	41	41	41	41	40	43	44	42	42	40	42	41
7-25-74	40	41	41	41	41	40	43	44	42	42	40	42	41
8- 5-74	36	41	43	43	41	38	44	45	44	42	37	43	42
8-21-74	36	41	42	42	40	39	43	43	43	42	37	42	41
9-18-74	35	40	41	41	39	37	42	43	42	41	36	41	40
10- 1-74	32	37	38	38	36	34	40	40	40	38	33	38	37
5-27-75	40	38	38	38	39	43	42	42	40	42	42	40	40
6-18-75	27	30	38	39	33	28	31	37	40	34	28	30	34
7-23-75	38	43	42	39	40	35	39	41	41	39	36	41	40
8-12-75	43	43	43	45	43	43	43	42	42	43	43	43	43
8-27-75	30	43	44	42	40	39	43	44	42	42	35	43	41
9-23-75	35	43	44	42	41	39	41	43	40	41	37	42	41
3-17-76	36	38	39	39	38	39	40	41	40	40	37	39	39
4- 6-76	35	37	39	38	37	38	40	40	40	40	37	38	38
4-20-76	37	37	38	38	37	39	39	40	40	40	38	38	38
5- 6-76	39	38	40	40	39	40	41	41	40	41	39	40	40
5-27-76	38	36	38	38	38	40	41	41	40	40	39	38	39
6- 9-76	40	38	38	39	39	41	42	42	41	41	40	40	40
6-28-76	37	39	39	40	39	40	41	42	41	41	38	40	40
7-14-76	35	38	39	39	38	40	42	41	41	41	37	40	39

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1: Nonfurrowed Watersheds												Site Mean		
	WS 14 <sup>1</sup>						WS 15								
	1	2	3	4	p <sup>2</sup>		1	2	3	4	P				
Date															
8- 4-76	34	38	39	39	37	37	38	42	41	41	40	36	40	40	39
8-18-76	33	38	39	39	37	37	37	41	41	41	40	35	39	40	38
8-25-76	34	38	39	39	38	38	38	41	42	41	40	36	39	40	39
9- 9-76	33	38	40	38	37	37	37	41	41	41	40	35	39	41	39
9-22-76	32	37	39	38	36	36	35	39	40	39	38	33	38	39	37
10- 4-76	32	37	39	39	36	36	35	39	40	39	38	33	38	39	37
10-20-76	33	38	39	38	37	37	37	40	40	39	39	35	39	40	38
11-16-76	32	36	39	38	36	36	35	40	39	39	38	34	38	39	37
12-15-76	32	35	37	36	35	35	36	39	39	38	38	34	37	38	37
3-23-77	35	37	39	39	38	38	39	41	41	41	40	37	39	40	39
4-13-77	38	37	39	39	38	38	38	41	40	40	40	38	39	39	39
5- 3-77	36	38	40	39	38	38	39	41	43	41	41	38	40	41	40
5-25-77	34	37	39	39	37	37	37	40	41	41	40	35	39	40	38
6- 7-77	33	38	39	39	37	37	36	40	41	40	39	34	39	40	38
6-29-77	34	37	39	38	37	37	38	40	41	40	40	36	39	40	38
7-13-77	33	37	39	39	37	37	37	41	41	40	40	35	39	40	38
7-27-77	33	38	39	39	37	37	36	41	42	41	40	34	39	40	38
8-10-77	34	37	39	39	37	37	38	41	41	40	40	36	39	40	38
9- 7-77	32	37	40	39	37	37	35	41	41	41	39	33	39	40	38
9-27-77	35	37	40	39	38	38	39	41	42	42	41	37	39	41	39
10-12-77	34	36	38	38	37	37	37	40	40	40	39	36	38	39	38
10-26-77	36	38	40	40	38	38	39	43	43	42	42	37	40	41	40
11- 8-77	34	37	39	38	37	37	38	40	41	40	40	36	38	40	38

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1:														
	WS 14 <sup>1</sup>					Nonfurrowed Watersheds WS 15					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date															
4-13-78	40	40	43	43	41	43	43	44	42	43	41	42	44	42	42
4-25-78	40	40	42	41	41	42	44	43	43	43	41	42	43	42	42
5-10-78	39	39	41	40	40	41	43	42	42	42	40	41	42	41	41
5-24-78	39	40	42	42	41	43	43	44	43	43	41	42	43	43	42
6- 6-78	43	43	45	44	44	46	47	46	46	46	44	45	45	45	45
6-22-78	42	43	45	45	44	46	47	48	47	47	44	45	47	46	46
7-12-78	38	40	42	41	40	43	44	44	43	43	40	42	43	42	42
7-26-78	38	41	42	42	41	42	44	44	43	43	40	42	43	43	42
8- 9-78	38	41	42	42	41	42	44	44	44	43	40	42	43	43	42
8-23-78	36	40	42	42	40	40	44	44	44	43	38	42	43	43	41
9-21-78	37	40	41	41	40	42	43	44	44	43	39	42	43	42	41
10- 3-78	36	39	40	40	39	39	43	43	42	42	38	41	42	41	40
10-18-78	36	40	42	41	40	40	44	44	43	43	38	42	43	42	41
10-31-78	35	39	41	40	39	38	43	44	43	42	37	41	43	41	40
4-25-79	40	40	42	42	41	43	44	44	44	44	41	42	43	43	42
5-16-79	41	41	44	44	42	43	46	45	45	45	42	44	44	44	44
6- 6-79	38	39	42	41	40	42	44	44	44	43	40	42	43	42	42
6-12-79	39	41	42	42	41	42	44	44	44	43	40	42	43	43	42
6-26-79	36	40	41	41	40	40	44	44	44	43	38	42	43	43	41
7-10-79	34	37	41	42	38	40	43	44	43	42	37	40	42	42	40
7-24-79	35	41	43	42	40	39	44	44	44	43	37	42	43	43	41
7-31-79	38	41	42	43	41	39	45	44	44	43	39	43	43	44	42
8-15-79	38	41	42	42	41	39	44	44	44	43	38	42	43	43	42
8-29-79	37	40	43	42	41	39	44	44	44	43	38	42	43	43	42
9-11-79	37	40	41	41	40	39	44	44	44	43	38	42	43	43	41

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1:																
	WS 14 <sup>1</sup>					Nonfurrowed Watersheds WS 15								Site Mean			
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P		
Date																	
9-25-79	38	41	44	42	41	39	45	45	45	44	38	43	44	43	42		
10-17-79	35	40	42	42	40	38	44	44	44	43	37	42	43	43	43	41	
4-17-80	35	39	41	41	39	37	42	44	43	41	36	40	42	42	42	40	
4-30-80	33	40	41	42	39	37	43	44	44	42	35	41	43	43	43	40	
5-14-80	31	39	41	42	38	34	42	44	44	41	33	40	43	43	43	40	
5-28-80	28	40	42	42	38	33	43	44	44	41	30	41	43	43	43	39	
6-18-80	32	40	42	42	39	35	44	44	44	42	34	42	43	43	43	40	
6-30-80	31	40	42	42	39	34	43	44	44	41	32	41	43	43	43	40	
7-15-80	29	39	41	42	38	32	43	45	44	41	30	41	43	43	43	39	
7-29-80	28	40	42	42	38	31	43	44	44	40	29	41	43	43	43	39	
8-19-80	32	40	42	43	39	37	43	44	44	42	34	42	43	43	43	41	
9- 3-80	32	39	42	42	39	35	43	44	44	42	34	41	43	43	43	40	
9-30-80	30	36	42	42	37	35	44	45	45	42	32	40	43	43	43	40	
10-21-80	34	40	42	42	39	35	40	43	44	41	35	40	42	43	43	40	
11- 5-80	35	40	42	42	40	39	43	44	44	43	37	41	43	43	43	41	

<sup>1</sup>Watershed number

<sup>2</sup>Profile mean

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site 1: Furrows of furrowed watersheds					Site Mean			
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P				
Date																			
11-29-67	33	36	37	38	36	34	38	40	38	37	33	37	38	38	37				
3-28-68	38	36	37	39	37	40	41	39	38	40	39	38	38	38	38				
4-18-68	38	36	37	39	37	40	41	39	38	39	39	38	38	38	38				
7- 9-68	39	38	38	40	39	42	42	41	40	41	41	40	39	40	40				
7-20-68	39	37	37	39	38	42	41	41	41	41	41	39	39	40	40				
8-13-68	38	38	38	40	38	41	42	40	38	40	40	40	39	39	39				
8-28-68	29	35	37	39	35	36	39	40	40	39	33	37	38	39	37				
10-23-68	38	37	37	39	38	42	42	41	40	41	40	39	39	39	39				
4-23-69	42	38	36	40	39	44	42	40	39	41	43	40	38	40	40				
5-20-69	41	39	37	40	39	45	42	41	40	42	43	41	39	40	41				
7- 7-69	43	42	39	42	41	46	44	42	41	43	45	43	40	41	42				
8-12-69	42	40	38	38	39	44	42	40	39	41	43	41	39	39	40				
9-10-69	38	41	39	42	40	42	42	41	40	41	40	42	40	41	41				
5-20-70	46	43	41	42	43	45	44	41	41	42	45	43	41	41	43				
6-30-70	42	40	38	38	40	44	42	41	40	41	43	41	39	39	40				
7-27-70	41	42	40	41	41	44	44	41	41	42	42	43	41	41	42				
5- 4-71	42	40	39	40	40	47	47	42	39	44	45	43	40	40	42				
6- 3-71	46	44	40	41	43	50	49	44	41	46	48	46	42	41	44				
6-29-71	42	41	38	39	40	45	45	42	40	43	44	43	40	40	42				
7-21-71	38	42	39	40	40	43	45	43	41	43	41	44	41	41	41				
9- 9-71	42	41	39	40	41	44	45	42	42	43	43	43	41	41	42				

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date															
4- 6-72	45	42	39	40	41	48	47	42	43	45	46	44	41	41	43
5-16-72	45	43	39	40	42	48	47	43	41	44	46	45	41	40	43
6- 1-72	44	42	39	40	41	48	47	42	42	45	46	45	41	41	43
6-13-72	45	43	40	41	42	48	47	43	43	45	47	45	42	42	44
6-27-72	44	41	40	40	41	47	46	42	42	44	45	44	41	41	43
7-10-72	43	42	40	42	42	48	47	42	42	45	46	44	41	42	43
7-20-72	42	40	39	41	41	47	45	40	41	43	44	43	40	41	42
7-26-72	43	41	40	41	41	47	47	42	42	45	45	44	41	42	43
8-16-72	43	41	39	41	41	47	47	42	42	44	45	44	40	42	43
8-29-72	42	41	41	41	41	47	44	42	41	44	45	43	41	41	42
9-13-72	41	40	39	41	40	46	46	42	43	44	43	43	40	42	42
10- 4-72	41	40	39	41	40	46	46	42	43	44	43	43	40	42	42
4- 5-73	43	41	39	40	41	46	46	42	42	44	44	43	41	41	42
4-26-73	44	43	40	40	42	47	47	42	41	44	46	45	41	41	43
5-16-73	44	42	41	42	42	48	47	43	42	45	46	45	42	42	44
5-30-73	43	40	39	40	40	47	47	42	41	44	45	43	40	41	42
6-13-73	43	42	39	41	41	47	46	42	42	44	45	44	41	41	43
6-25-73	44	42	40	41	41	47	46	42	43	44	45	44	41	42	43
7- 2-73	44	43	40	41	42	47	47	42	40	44	46	45	41	41	43
7-24-73	40	41	39	41	40	45	47	43	43	44	43	44	41	42	42
8-14-73	38	42	41	43	41	41	48	43	43	44	39	45	42	43	42
8-28-73	40	40	40	41	40	45	46	42	42	44	43	43	41	42	42
9- 6-73	41	39	40	40	40	46	46	42	42	44	44	43	41	41	42
10- 3-73	40	41	40	41	40	47	47	43	42	45	44	44	41	42	43

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13						Site 1: Furrows of furrowed watersheds WS 16						Site Mean							
	1		2		3		4		P <sup>2</sup>		1		2		3		4		P	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Date																				
4-17-74	44	42	41	40	42	42	48	47	43	42	45	46	45	42	41	43				
5- 1-74	45	42	40	42	42	42	49	49	44	43	46	47	46	42	42	44				
5-23-74	45	42	40	41	42	42	48	48	43	42	45	46	45	41	41	44				
6- 5-74	45	43	40	41	42	42	49	48	43	43	46	47	45	41	42	44				
6-19-74	47	44	42	43	44	44	48	49	44	44	46	48	47	43	44	45				
7- 9-74	43	43	41	42	42	42	48	48	44	43	46	45	45	42	42	44				
7-25-74	43	43	41	42	42	42	48	48	44	43	46	45	45	42	42	44				
8- 5-74	40	43	42	43	42	42	46	49	44	44	46	43	46	43	43	44				
8-21-74	41	43	41	42	42	42	46	49	43	43	45	44	46	42	43	44				
9-18-74	38	42	40	41	40	40	45	49	43	42	45	41	45	41	42	42				
10- 1-74	36	39	38	39	38	38	42	46	40	40	42	39	42	39	39	40				
5-27-75	43	41	38	39	40	40	48	47	41	41	44	45	44	40	40	42				
6-18-75	43	40	36	41	40	40	45	47	49	49	48	44	44	42	45	44				
7-23-75	26	48	41	44	40	40	29	42	41	40	38	27	45	41	42	39				
8-12-75	42	45	39	40	42	42	43	50	46	42	45	42	48	43	41	43				
8-27-75	32	41	45	43	40	40	38	50	45	43	44	35	45	45	43	42				
9-23-75	28	42	44	41	39	39	29	45	47	42	41	28	43	46	42	40				
3-17-76	43	41	39	38	40	40	47	48	44	40	45	45	44	42	39	43				
4- 6-76	41	40	38	37	39	39	45	47	43	39	44	43	43	40	38	41				
4-20-76	42	40	38	36	39	39	45	46	44	40	44	44	44	41	38	41				
5- 6-76	43	42	39	39	41	41	45	47	45	41	44	44	44	42	40	43				
5-27-76	41	41	39	38	39	39	44	47	44	41	44	43	44	41	39	42				
6- 9-76	41	42	41	39	41	41	41	48	45	40	43	41	45	43	39	42				

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date															
6-28-76	42	41	39	39	40	46	49	45	41	46	44	45	42	40	43
7-14-76	37	42	39	39	39	46	48	44	42	45	42	45	42	40	42
8- 4-76	27	40	39	38	36	39	47	44	41	43	33	44	42	40	39
8-18-76	32	40	38	39	37	42	47	44	40	43	37	43	41	39	40
8-25-76	25	39	39	38	35	42	49	44	42	44	34	44	41	40	40
9- 9-76	28	40	39	39	36	41	49	43	42	44	34	44	41	40	40
9-22-76	24	39	37	37	34	34	46	43	40	41	29	42	40	38	37
10- 4-76	27	38	37	37	35	34	45	43	39	40	31	41	40	38	38
10-20-76	34	39	37	39	37	35	46	43	41	41	35	43	40	40	39
11-16-76	32	38	36	37	36	36	47	41	38	40	34	42	38	37	38
12-15-76	34	37	35	37	35	41	45	40	39	41	37	41	37	38	38
3-23-77	40	40	38	38	39	45	48	44	41	45	42	44	41	40	42
4-13-77	40	40	38	38	39	46	50	45	41	46	43	45	42	39	42
5- 3-77	40	41	39	39	40	45	49	44	42	45	43	45	41	40	42
5-25-77	33	40	38	38	37	31	48	45	40	41	32	44	42	39	39
6- 7-77	29	40	38	38	36	23	47	45	41	39	26	43	42	39	38
6-29-77	35	40	39	38	38	38	48	45	40	43	36	44	42	39	40
7-13-77	32	40	38	38	37	39	49	43	41	43	35	44	41	40	40
7-27-77	28	39	38	39	36	29	49	44	41	41	28	44	41	40	38
8-10-77	36	39	39	38	38	34	48	43	40	41	35	43	41	39	40
9- 7-77	29	38	38	38	36	26	47	43	41	39	28	43	40	39	38
9-27-77	37	39	39	39	38	45	49	41	42	44	41	44	40	41	41
10-12-77	37	37	37	38	37	44	48	43	44	45	40	42	40	41	41
10-26-77	38	39	40	41	39	44	49	44	45	45	41	44	42	43	42
11- 8-77	36	39	38	39	38	43	48	42	42	44	39	44	40	40	41

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
	Date					Date					Date				
4-13-78	43	41	41	42	42	48	52	44	44	47	45	47	43	43	44
4-25-78	42	42	42	43	42	48	52	44	44	47	45	47	43	43	44
5-10-78	41	41	41	42	41	47	51	43	43	46	44	46	42	42	43
5-24-78	43	41	41	42	42	48	51	49	44	48	46	46	45	43	45
6- 6-78	45	43	43	43	43	50	54	45	45	49	47	48	44	44	46
6-22-78	43	45	45	45	44	42	55	53	48	50	43	50	49	46	47
7-12-78	39	39	40	41	40	48	50	44	44	47	43	45	42	43	43
7-26-78	39	41	40	42	41	48	51	45	46	47	44	46	43	44	44
8- 9-78	39	42	42	42	41	49	53	45	45	48	44	48	43	43	45
8-23-78	40	41	41	42	41	43	52	45	44	46	41	46	43	43	43
9-21-78	39	40	40	41	40	46	51	44	44	46	43	46	42	42	43
10- 3-78	37	40	39	40	39	44	51	43	44	45	40	46	41	42	42
10-18-78	38	39	42	41	40	34	51	46	44	44	36	45	44	42	42
10-31-78	38	39	41	40	39	49	51	43	43	47	44	45	42	42	43
4-25-79	43	44	42	43	43	49	53	44	45	48	46	49	43	44	45
5-16-79	42	44	43	42	43	47	52	46	46	48	44	48	45	44	45
6- 6-79	42	41	42	42	42	46	53	46	44	47	44	47	44	43	44
6-12-79	42	42	42	42	42	47	50	44	45	46	44	46	43	43	44
6-26-79	36	42	41	41	40	43	52	45	45	46	39	47	43	43	43
7-10-79	38	42	41	41	40	41	50	42	43	44	39	46	41	42	42
7-24-79	37	43	41	41	40	39	52	45	46	45	38	47	43	43	43
7-31-79	41	43	42	43	42	46	51	45	45	46	44	47	43	44	44
8-15-79	37	43	41	42	41	42	51	45	45	46	39	47	43	43	43
8-29-79	37	43	43	42	41	42	50	44	44	45	39	46	43	43	43

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
	Date														
9-11-79	38	41	41	41	40	47	51	44	45	47	42	46	43	43	43
9-25-79	39	43	42	42	41	45	52	46	45	47	42	48	44	43	44
10-17-79	34	41	41	41	39	41	51	45	45	45	37	46	43	43	42
4-17-80	38	41	41	42	40	41	49	44	45	45	40	45	42	43	42
4-30-80	38	42	41	42	41	42	50	47	44	46	40	46	44	43	43
5-14-80	28	41	41	41	38	39	50	46	44	44	34	45	43	42	41
5-28-80	33	41	41	42	39	36	49	44	44	43	35	45	43	43	41
6-18-80	39	41	41	42	41	42	50	44	45	45	40	45	43	43	43
6-30-80	35	41	42	42	40	40	50	47	45	45	38	46	44	43	43
7-15-80	28	40	41	41	38	37	50	44	45	44	33	45	43	43	41
7-29-80	23	40	41	41	36	36	49	44	45	43	30	44	42	43	40
8-19-80	39	41	42	41	41	43	50	44	46	45	41	45	43	44	43
9- 3-80	38	42	41	43	41	41	50	43	45	45	39	46	42	44	43
9-30-80	36	42	41	42	40	40	50	44	46	45	38	46	42	44	42
10-21-80	42	41	41	41	41	42	50	44	46	46	42	46	43	44	43
11- 5-80	39	41	42	45	42	43	50	44	46	46	41	45	43	46	44

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1: Ridges of furrowed watersheds								P						
	WS 13				WS 16										
	1	2	3	4	1	2	3	4							
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P					
11-29-67	31	34	35	38	34	32	36	40	37	36	32	35	38	38	35
3-28-68	33	34	36	38	35	37	37	40	38	38	35	35	38	38	37
4-18-68	32	34	37	38	35	36	37	39	38	37	34	36	38	38	36
7- 9-68	35	36	38	40	37	39	39	41	39	39	37	37	39	39	38
7-20-68	31	35	36	39	35	35	39	41	39	38	33	37	38	39	37
8-13-68	29	35	37	39	35	32	39	41	40	38	30	37	39	40	36
8-28-68	29	35	37	39	35	36	39	40	40	39	33	37	38	39	37
10-23-68	29	35	37	39	35	32	38	40	40	37	30	36	38	39	36
4-23-69	37	35	36	39	37	40	39	40	39	40	38	37	38	39	38
5-20-69	37	36	37	39	37	41	39	40	40	40	39	38	39	39	39
7- 7-69	38	38	38	40	38	43	41	42	41	42	40	39	40	40	40
8-12-69	34	36	37	40	37	37	38	40	39	38	35	37	39	40	38
9-10-69	31	37	38	40	36	30	39	41	40	38	30	38	40	40	37
5-20-70	43	40	40	41	41	42	40	41	40	41	43	40	40	40	41
6-30-70	36	37	38	38	37	38	39	40	39	39	37	38	39	38	38
7-27-70	32	38	40	41	38	36	40	40	39	39	34	39	40	40	38
5- 4-71	41	40	41	41	41	43	44	42	39	42	42	42	42	40	41
6- 3-71	43	41	41	41	41	46	46	45	42	45	45	43	43	42	43
6-29-71	39	38	39	39	39	42	42	43	39	41	40	40	41	39	40
7-21-71	33	39	40	41	38	32	43	43	40	40	32	41	42	40	39
9- 9-71	38	40	41	42	40	40	43	42	41	41	39	41	41	41	41

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date															
4- 6-72	45	39	40	41	41	47	46	45	41	44	45	42	42	41	43
5-16-72	45	41	40	41	42	45	46	44	40	44	45	43	42	40	43
6- 1-72	43	40	39	40	41	45	46	45	41	44	44	43	42	40	42
6-13-72	42	41	41	41	41	44	46	44	41	44	43	44	43	41	43
6-27-72	41	41	40	41	41	43	45	43	41	43	42	43	42	41	42
7-10-72	39	41	41	41	40	42	46	44	41	43	40	43	42	41	42
7-20-72	38	39	40	40	39	40	44	43	40	42	39	42	41	40	41
7-26-72	41	40	41	41	41	43	45	43	42	43	42	43	42	42	42
8-16-72	40	40	40	41	40	42	46	44	41	43	41	43	42	41	42
8-29-72	40	40	41	41	40	40	45	43	41	42	40	42	42	41	41
9-13-72	38	39	40	41	40	37	46	44	41	42	37	43	42	41	41
10- 4-72	38	39	40	41	40	37	46	44	41	42	37	43	42	41	41
4- 5-73	38	38	39	40	38	36	45	44	41	41	37	41	41	41	40
4-26-73	42	40	40	41	41	41	45	43	41	43	41	43	42	41	42
5-16-73	40	41	41	41	41	41	46	45	41	43	40	43	43	41	42
5-30-73	41	41	39	40	40	42	45	44	40	43	42	43	41	40	41
6-13-73	40	41	40	40	40	41	45	44	41	43	41	43	42	40	41
6-25-73	40	40	39	40	40	43	45	44	40	43	41	43	41	40	41
7- 2-73	40	42	41	41	41	41	46	45	40	43	40	44	43	41	42
7-24-73	34	39	40	41	38	34	46	44	41	41	34	42	42	41	40
8-14-73	32	41	41	42	39	31	46	45	42	41	31	44	43	42	40
8-28-73	34	39	40	41	39	35	45	43	41	41	35	42	41	41	40
9- 6-73	38	40	40	41	40	37	44	42	40	41	37	42	41	40	40
10- 3-73	38	39	40	41	40	39	45	43	42	42	39	42	42	42	41

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1: Ridges of furrowed watersheds														
	WS 13					WS 16					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date															
4-17-74	42	40	41	41	41	44	46	45	41	44	43	43	43	41	42
5- 1-74	42	40	41	41	41	45	48	46	42	45	44	44	43	42	43
5-23-74	41	40	41	41	40	44	46	44	41	44	42	43	42	41	42
6- 5-74	41	41	41	43	41	43	47	45	42	44	42	44	43	42	43
6-19-74	38	42	43	43	41	44	48	47	44	45	41	45	45	43	43
7- 9-74	35	41	41	42	40	40	48	46	42	44	38	44	43	42	42
7-25-74	35	41	41	42	40	40	48	46	42	44	38	44	43	42	42
8- 5-74	33	42	42	43	40	34	48	45	43	42	33	45	44	43	41
8-21-74	32	41	42	43	39	34	47	45	42	42	33	44	43	42	41
9-18-74	30	39	41	42	38	33	47	44	41	41	31	43	43	42	40
10- 1-74	28	37	38	39	35	30	43	41	39	38	29	40	40	39	37
5-27-75	42	39	39	39	40	45	46	44	40	44	44	43	41	40	42
6-18-75	36	38	38	44	39	45	45	48	46	46	40	41	43	45	42
7-23-75	31	45	39	40	39	31	40	41	43	39	31	42	40	41	39
8-12-75	39	45	44	40	42	41	48	43	41	43	40	46	43	40	42
8-27-75	28	42	43	42	39	25	47	44	42	39	27	44	44	42	39
9-23-75	30	41	43	40	38	32	46	45	42	41	31	44	44	41	40
3-17-76	40	39	39	40	40	42	46	43	40	43	41	42	41	40	41
4- 6-76	39	37	38	39	38	41	45	43	38	42	40	41	40	38	40
4-20-76	39	38	38	38	38	44	45	42	38	42	42	41	40	38	40
5- 6-76	41	39	39	39	40	43	46	42	40	43	42	43	41	40	41
5-27-76	39	39	39	39	39	41	46	42	40	42	40	42	41	39	41
6- 9-76	38	40	40	40	39	43	49	45	42	45	40	44	42	41	42

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date															
6-28-76	39	39	39	40	39	43	46	45	40	43	41	42	42	40	41
7-14-76	40	39	39	40	40	41	47	43	40	43	40	43	41	40	41
8- 4-76	36	38	40	39	38	36	47	44	40	42	36	43	42	40	40
8-18-76	35	38	39	39	38	34	46	43	40	41	35	42	41	40	39
8-25-76	38	38	39	40	39	35	47	43	40	41	36	42	41	40	40
9- 9-76	35	39	40	40	39	37	47	44	40	42	36	43	42	40	40
9-22-76	33	37	38	38	37	36	45	42	39	40	34	41	40	38	38
10- 4-76	33	37	38	38	36	35	45	42	38	40	34	41	40	38	38
10-20-76	35	37	39	40	38	36	46	40	39	40	35	42	40	40	39
11-16-76	34	36	37	38	36	36	45	41	38	40	35	40	39	38	38
12-15-76	36	35	37	38	36	38	44	40	38	40	37	39	38	38	38
3-23-77	41	38	39	40	39	40	45	42	39	42	40	42	41	40	41
4-13-77	39	38	38	39	38	40	45	43	39	42	39	41	40	39	40
5- 3-77	40	38	39	41	40	39	46	44	40	42	39	42	42	40	41
5-25-77	36	38	38	40	38	35	45	43	39	40	35	41	40	40	39
6- 7-77	34	38	39	40	38	32	45	44	40	40	33	42	41	40	39
6-29-77	37	38	39	39	38	35	45	43	39	40	36	41	41	39	39
7-13-77	36	38	39	40	38	32	45	42	39	40	34	42	41	39	39
7-27-77	36	38	39	40	38	30	46	43	40	40	33	42	41	40	39
8-10-77	35	37	39	40	38	31	45	42	39	39	33	41	41	39	38
9- 7-77	32	38	39	39	37	29	45	43	39	39	31	41	41	39	38
9-27-77	37	39	39	40	39	37	46	44	40	42	37	42	41	40	40
10-12-77	37	37	38	39	38	37	45	42	39	41	37	41	40	39	39
10-26-77	40	41	40	41	41	37	48	45	41	43	39	45	42	41	42
11- 8-77	38	38	39	40	39	36	44	42	39	40	37	41	41	40	40

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site Mean				
	1	2	3	4	p <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date															
4-13-78	42	42	42	43	42	45	49	47	42	46	44	45	44	43	44
4-25-78	43	41	43	43	42	44	50	47	43	46	44	45	45	43	44
5-10-78	42	40	42	42	41	43	48	46	42	45	42	44	44	42	43
5-24-78	43	41	41	43	42	45	49	47	42	46	44	45	44	43	44
6- 6-78	43	43	43	44	43	46	50	48	44	47	45	47	46	44	45
6-22-78	45	46	46	46	46	46	53	48	47	48	45	49	47	46	47
7-12-78	40	41	41	41	41	41	48	46	43	44	40	44	44	42	42
7-26-78	40	41	42	42	41	38	48	47	43	44	39	45	44	43	43
8- 9-78	40	41	43	43	42	39	49	48	43	45	39	45	45	43	43
8-23-78	37	41	42	42	40	36	49	47	44	44	36	45*	44	43	42
9-21-78	37	40	41	41	40	38	49	46	42	44	37	44	43	42	42
10- 3-78	38	40	41	41	40	35	47	46	42	42	36	44	43	41	41
10-18-78	37	41	42	42	40	36	48	47	43	43	37	45	44	42	42
10-31-78	36	40	40	41	39	35	48	46	42	43	36	44	43	41	41
4-25-79	43	43	42	42	43	46	50	48	45	47	44	47	45	44	45
5-16-79	42	43	43	44	43	45	51	49	45	47	44	47	46	44	45
6- 6-79	39	42	42	42	41	40	50	47	43	45	40	46	45	42	43
6-12-79	39	42	42	43	41	41	48	48	43	45	40	45	45	43	43
6-26-79	39	42	42	43	41	36	50	48	43	44	37	46	45	43	43
7-10-79	36	42	41	41	40	33	48	46	42	42	34	45	44	42	41
7-24-79	35	42	42	43	41	32	49	47	43	43	33	45	44	43	42
7-31-79	37	43	43	44	42	33	49	46	43	43	35	46	45	44	42
8-15-79	34	41	42	42	40	31	49	47	43	43	33	45	45	43	41
8-29-79	33	43	44	45	41	32	48	47	43	42	33	45	45	44	42

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date															
9-11-79	36	41	41	43	40	33	48	47	43	43	34	45	44	43	42
9-25-79	38	42	43	44	42	33	49	47	43	43	36	46	45	43	42
10-17-79	32	40	42	42	39	31	49	47	44	43	32	45	44	43	41
4-17-80	38	41	41	42	40	31	46	47	42	42	34	44	44	42	41
4-30-80	35	42	42	43	40	30	47	47	43	42	33	44	45	43	41
5-14-80	32	42	42	42	39	28	47	47	43	41	30	44	44	43	40
5-28-80	30	42	42	43	39	26	46	46	42	40	28	44	44	42	40
6-18-80	35	42	42	43	40	30	46	47	43	41	33	44	44	43	41
6-30-80	35	42	42	43	41	28	46	46	43	41	31	44	44	43	41
7-15-80	31	41	41	43	39	27	46	47	43	41	29	44	44	43	40
7-29-80	29	42	42	43	39	26	46	46	43	40	27	44	44	43	40
8-19-80	34	41	42	43	40	27	47	46	43	41	30	44	44	43	40
9- 3-80	33	41	42	44	40	28	47	46	43	41	30	44	44	43	40
9-30-80	31	41	42	44	39	27	47	46	43	41	29	44	44	43	40
10-21-80	38	41	42	44	41	34	47	46	43	42	36	44	44	43	42
11- 5-80	38	41	42	43	41	34	47	46	43	42	36	44	44	43	42

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site 1: Furrowed watershed average of furrows and ridges					Site Mean				
	1	2	3	4	p <sup>2</sup>	1	2	3	4	P	1	2	3	4	P					
Date																				
11-29-67	32	35	36	38	35	33	37	40	38	37	32	36	38	38	36					
3-28-68	35	35	37	38	36	39	39	40	38	39	37	37	38	38	37					
4-18-68	35	35	37	38	36	38	39	39	38	38	36	37	38	38	37					
7- 9-68	37	37	38	40	38	41	40	41	39	40	39	38	39	40	39					
7-20-68	35	36	37	39	37	38	40	41	40	40	37	38	39	39	38					
8-13-68	34	36	37	39	37	37	40	41	39	39	35	38	39	39	38					
8-28-68	29	35	37	39	35	36	39	40	40	39	33	37	38	39	37					
10-23-68	33	36	37	39	36	37	40	40	40	39	35	38	39	39	38					
4-23-69	39	37	36	40	38	42	41	40	39	40	41	39	38	39	39					
5-20-69	39	38	37	39	38	43	41	40	40	41	41	39	39	40	40					
7- 7-69	41	40	39	41	40	44	42	42	41	42	43	41	40	41	41					
8-12-69	38	38	38	39	38	40	40	40	39	40	39	39	39	39	39					
9-10-69	35	39	39	41	38	36	41	41	40	40	35	40	40	40	39					
5-20-70	44	42	40	41	42	43	42	41	40	42	44	42	41	41	42					
6-30-70	39	38	38	38	38	41	40	40	39	40	40	39	39	39	39					
7-27-70	37	40	40	41	39	40	42	41	40	41	38	41	40	40	40					
5- 4-71	42	40	40	41	41	45	45	42	39	43	43	43	41	40	42					
6- 3-71	44	42	40	41	42	48	47	44	42	45	46	45	42	41	44					
6-29-71	41	40	38	39	39	43	44	42	39	42	42	42	40	39	41					

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site Mean				
	1	2	3	4	p <sup>2</sup>	1	2	3	4	p	1	2	3	4	p
Date															
7-21-71	35	41	40	41	39	38	44	43	41	41	37	42	41	41	40
9- 9-71	40	40	40	41	40	42	44	42	41	42	41	42	41	41	41
4- 6-72	45	41	39	40	41	47	46	44	42	45	46	43	41	41	43
5-16-72	45	42	40	40	42	47	46	43	40	44	46	44	41	40	43
6- 1-72	43	41	39	40	41	47	46	44	41	45	45	44	42	41	43
6-13-72	44	42	41	41	42	46	47	44	42	45	45	44	42	42	43
6-27-72	42	41	40	41	41	45	46	43	41	44	44	43	41	41	42
7-10-72	41	41	40	42	41	45	46	43	41	44	43	44	42	41	42
7-20-72	40	40	39	41	40	43	45	41	41	43	42	42	40	41	41
7-26-72	42	41	40	41	41	45	46	43	42	44	44	43	41	42	42
8-16-72	41	41	40	41	41	45	46	43	42	44	43	43	41	41	42
8-29-72	41	40	41	41	41	44	45	43	41	43	42	42	42	41	42
9-13-72	39	40	40	41	40	42	46	43	42	43	40	43	41	42	42
10- 4-72	39	40	40	41	40	42	46	43	42	43	40	43	41	42	42
4- 5-73	40	40	39	40	40	41	45	43	41	43	40	42	41	41	41
4-26-73	43	41	40	40	41	44	46	43	41	44	44	44	41	41	42
5-16-73	42	42	41	42	41	44	47	44	42	44	43	44	42	42	43
5-30-73	42	40	39	40	40	45	46	43	41	43	43	43	41	40	42
6-13-73	42	41	40	40	41	44	46	43	41	43	43	43	41	41	42
6-25-73	42	41	40	41	41	45	46	43	41	43	43	43	41	41	42
7- 2-73	42	42	41	41	41	44	46	43	40	44	43	44	42	41	42
7-24-73	37	40	39	41	39	39	46	43	42	43	38	43	41	41	41
8-14-73	35	41	41	42	40	36	47	44	43	42	35	44	43	42	41

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1: Furrowed watershed average of furrows and ridges															
	WS 13					WS 16					Site Mean					
	1	2	3	4	p <sup>2</sup>	1	2	3	4	p						
Date																
8-28-73	37	40	40	41	41	39	40	46	42	41	42	39	43	41	41	41
9- 6-73	39	39	40	40	40	40	41	45	42	41	42	40	42	41	41	41
10- 3-73	39	40	40	41	40	40	43	46	43	42	44	41	43	41	42	42
4-17-74	43	41	41	41	41	41	46	46	44	42	45	44	44	42	41	43
5- 1-74	43	41	40	41	41	42	47	48	45	43	46	45	45	43	42	44
5-23-74	43	41	40	41	41	41	46	47	43	42	45	44	44	42	41	43
6- 5-74	43	42	41	42	42	42	46	48	44	42	45	44	45	42	42	43
6-19-74	42	43	43	43	43	43	46	48	45	44	46	44	46	44	44	44
7- 9-74	39	42	41	42	41	41	44	48	45	42	45	42	45	43	42	43
7-25-74	39	42	41	42	41	41	44	48	45	42	45	42	45	43	42	43
8- 5-74	37	43	42	43	41	41	40	48	45	43	44	38	45	43	43	43
8-21-74	36	42	42	42	40	40	40	48	44	43	44	38	45	43	43	42
9-18-74	34	40	41	41	39	39	39	48	43	42	43	36	44	42	42	41
10- 1-74	32	38	38	39	37	37	36	44	41	40	40	34	41	39	39	38
5-27-75	43	40	39	39	39	40	46	47	42	41	44	45	43	40	40	42
6-18-75	39	39	37	42	39	39	45	46	48	47	47	42	42	43	45	43
7-23-75	28	46	40	42	39	39	30	41	41	42	38	29	43	41	42	39
8-12-75	40	45	41	40	42	42	42	49	45	42	44	41	47	43	41	43
8-27-75	30	41	44	43	40	40	31	48	45	42	42	31	45	44	42	41
9-23-75	29	42	43	41	39	39	30	45	46	42	41	30	43	45	41	40

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1: Furrowed watershed average of furrows and ridges										Site Mean				
	WS 13					WS 16									
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date															
3-17-76	42	40	39	39	40	45	47	44	40	44	43	43	41	39	42
4 -6-76	40	39	38	38	39	43	46	43	39	43	41	42	40	38	41
4-20-76	41	39	38	37	39	45	46	43	39	43	43	42	40	38	41
5- 6-76	42	40	39	39	40	44	47	43	40	44	43	43	41	40	42
5-27-76	40	40	39	39	39	43	46	43	40	43	41	43	41	39	41
6- 9-76	39	41	40	40	40	42	48	45	41	44	41	44	42	40	42
6-28-76	40	40	39	39	40	45	48	45	40	44	43	44	42	40	42
7-14-76	38	40	39	40	39	44	47	44	41	44	41	44	42	40	42
8- 4-76	32	39	39	39	37	38	47	44	40	42	35	43	42	40	40
8-18-76	34	39	38	39	37	38	47	43	40	42	36	43	41	39	40
8-25-76	31	39	39	39	37	38	48	43	41	43	35	43	41	40	40
9- 9-76	31	39	39	40	37	39	48	43	41	43	35	43	41	40	40
9-22-76	28	38	38	38	35	35	45	42	39	40	32	42	40	38	38
10- 4-76	30	37	37	38	36	35	45	42	39	40	32	41	40	38	38
10-20-76	34	38	38	39	37	36	46	42	40	41	35	42	40	40	39
11-16-76	33	37	36	37	36	36	46	41	38	40	34	41	39	38	38
12-15-76	35	36	36	37	36	39	44	40	38	40	37	40	38	38	38
3-23-77	40	39	39	39	39	43	47	43	40	43	41	43	41	40	41
4-13-77	40	39	38	38	39	43	48	44	40	44	41	43	41	39	41
5- 3-77	40	39	39	40	40	42	47	44	41	43	41	43	42	40	41
5-25-77	34	39	38	39	38	33	46	44	40	41	33	43	41	39	39
6- 7-77	31	39	39	39	37	27	46	44	40	40	29	43	41	40	38
6-29-77	36	39	39	39	38	37	46	44	40	42	36	42	41	39	40

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1: Furrowed watershed average of furrows and ridges							Site Mean			
	WS 13							WS 16			
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	P
Date											
7-13-77	34	39	39	39	38	36	47	42	40	41	39
7-27-77	32	39	39	39	37	29	47	44	41	40	39
8-10-77	36	38	39	39	38	33	46	43	39	40	39
9- 7-77	31	38	38	39	36	28	46	43	40	39	38
9-27-77	37	39	39	39	38	41	48	42	41	43	41
10-12-77	37	37	38	39	38	41	46	42	41	43	40
10-26-77	39	40	40	41	40	40	48	44	43	44	42
11- 8-77	37	38	39	39	38	39	46	42	41	42	40
4-13-78	42	42	42	42	42	47	50	45	43	46	44
4-25-78	42	42	42	43	42	46	51	45	43	46	44
5-10-78	41	41	41	42	41	45	49	44	42	45	43
5-24-78	43	41	41	42	42	46	50	48	43	47	44
6- 6-78	44	43	43	44	43	48	52	47	45	48	46
6-22-78	44	45	45	45	45	44	54	50	47	49	47
7-12-78	39	40	41	41	40	44	49	45	44	45	43
7-26-78	39	41	41	42	41	43	50	46	44	46	43
8- 9-78	40	42	42	42	41	44	51	46	44	46	44
8-23-78	38	41	41	42	41	39	51	46	44	45	43
9-21-78	38	40	40	41	40	42	50	45	43	45	42
10- 3-78	37	40	40	41	39	39	49	44	43	44	42
10-18-78	37	40	42	41	40	35	49	46	43	43	42
10-31-78	37	39	40	41	39	42	50	45	43	45	42

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	WS 13					WS 16					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date	•														
4-25-79	43	44	42	42	43	47	52	46	45	47	45	48	44	44	45
5-16-79	42	43	43	43	43	46	52	48	45	48	44	47	45	44	45
6- 6-79	40	42	42	42	41	43	51	47	43	46	42	46	44	43	44
6-12-79	40	42	42	42	41	44	49	46	44	46	42	45	44	43	44
6-26-79	37	42	41	42	41	39	51	47	44	45	38	47	44	43	43
7-10-79	37	42	41	41	40	37	49	44	42	43	37	45	43	42	42
7-24-79	36	43	42	42	40	35	50	46	45	44	35	46	44	43	42
7-31-79	39	43	43	43	42	39	50	45	44	45	39	46	44	44	43
8-15-79	35	42	42	42	40	37	50	46	44	44	36	46	44	43	42
8-29-79	35	43	43	44	41	37	49	45	43	43	36	46	44	43	42
9-11-79	37	41	41	42	40	40	50	46	44	45	38	45	43	43	43
9-25-79	38	42	43	43	42	39	51	47	44	45	39	47	45	43	43
10-17-79	33	41	41	42	39	36	50	46	44	44	34	45	44	43	42
4-17-80	38	41	41	42	40	36	48	45	43	43	37	44	43	43	42
4-30-80	37	42	41	42	41	36	49	47	43	44	36	45	44	43	42
5-14-80	30	41	41	42	39	34	48	46	43	43	32	45	44	42	41
5-28-80	31	42	42	43	39	31	48	45	43	42	31	45	43	43	41
6-18-80	37	41	41	42	40	36	48	45	44	43	37	45	43	43	42
6-30-80	35	42	42	43	40	34	48	47	44	43	35	45	44	43	42
7-15-80	30	41	41	42	38	32	48	46	44	42	31	44	43	43	40
7-29-80	26	41	41	42	38	31	47	45	44	42	29	44	43	43	40
8-19-80	36	41	42	42	40	35	48	45	45	43	36	45	43	43	42
9- 3-80	35	42	41	43	40	34	48	44	44	43	35	45	43	44	42

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980. (cont.)

Profile Depth Increment (ft)	Site 1: Furrowed watershed average of furrows and ridges														
	WS 13					WS 16					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P
Date															
9-30-80	33	41	42	43	40	33	49	45	44	43	33	45	43	44	41
10-21-80	40	41	42	42	41	38	49	45	44	44	39	45	43	43	43
11- 5-80	38	41	42	44	41	38	49	45	45	44	38	45	43	44	43

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Nonfurrowed Watersheds																Site Mean			
	WS 22								WS 23								WS 26			
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
	Date																			
11-29-67	23	27	26	32	27	34	35	32	34	34	23	27	28	31	27	27	30	29	32	29
3-28-68	26	29	29	32	29	37	36	33	34	35	26	27	30	31	28	30	31	30	32	31
4-18-68	25	28	28	33	28	36	35	32	32	34	26	27	29	31	28	29	30	30	32	30
7- 9-68	25	30	29	34	29	32	37	34	34	34	25	29	30	33	29	27	32	31	34	31
7-20-68	24	29	28	33	28	30	35	34	36	33	26	28	30	32	29	26	31	31	34	30
8-13-68	22	29	29	33	28	26	35	34	34	32	25	29	31	32	29	24	31	31	33	30
8-28-68	25	29	28	33	28	35	33	33	35	34	25	29	30	33	29	28	30	30	33	30
10-23-68	22	30	29	33	28	26	34	34	34	32	23	28	30	33	29	24	31	31	33	30
4-23-69	27	31	29	34	30	35	34	33	33	34	23	28	30	32	28	28	31	30	33	31
5-20-69	25	33	31	35	31	34	36	34	34	34	23	29	31	33	29	27	32	32	34	31
7- 7-69	30	34	30	35	32	41	40	35	35	38	27	29	31	33	30	33	34	32	34	33
8-12-69	19	32	29	33	28	26	36	33	34	32	23	29	30	32	28	23	32	31	33	30
9-10-69	19	31	30	34	29	23	33	34	35	31	22	29	31	33	29	21	31	32	34	29
5-20-70	32	32	30	35	32	40	38	36	35	37	27	30	31	33	30	33	33	32	34	33
6-30-70	23	31	29	33	29	26	35	34	35	33	25	28	30	33	29	25	31	31	34	30
7-27-70	22	32	30	34	29	25	33	35	35	32	25	28	31	33	29	24	31	32	34	30
5- 4-71	30	31	31	34	31	38	33	34	34	35	27	28	30	32	29	32	31	32	33	32
6- 3-71	29	32	30	34	31	40	34	35	35	36	27	29	31	33	30	32	32	32	34	32
6-29-71	23	30	28	33	29	32	36	34	34	34	25	29	30	32	29	27	32	31	33	30
7-21-71	20	30	29	34	28	23	35	35	35	32	22	29	31	33	28	22	31	31	34	30
9- 9-71	27	31	29	33	30	30	32	34	34	32	25	28	30	32	29	28	30	31	33	30

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Nonfurrowed Watersheds															Site Mean				
	WS 22					WS 23					WS 26									
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P					
	Date																			
4- 6-72	31	31	29	34	31	42	39	37	35	38	27	28	30	33	29	33	32	34	33	
5-16-72	28	30	29	34	30	42	40	38	36	39	27	29	31	33	30	32	33	32	34	33
6- 1-72	28	30	28	33	30	39	39	37	34	37	26	28	30	32	29	31	32	32	33	32
6-13-72	22	30	29	34	29	30	38	38	36	35	26	29	31	33	30	26	32	33	34	31
6-27-72	28	27	28	31	28	33	38	37	35	36	26	28	30	32	29	29	31	32	33	31
7-10-72	25	31	30	34	30	28	37	38	35	34	26	29	31	33	29	26	32	33	34	31
7-20-72	24	31	30	33	29	28	36	37	34	34	26	29	31	33	30	26	32	32	33	31
7-26-72	25	31	31	34	30	35	36	37	34	35	26	29	30	33	29	29	32	33	33	32
8-16-72	25	31	30	34	30	31	37	37	36	35	27	29	31	34	30	28	33	33	34	32
8-29-72	24	30	29	34	29	28	36	36	33	33	26	28	31	33	30	26	31	32	33	31
9-13-72	23	30	30	34	29	24	34	37	34	32	24	28	30	32	29	24	31	32	33	30
10- 4-72	18	29	32	32	28	23	32	36	34	31	22	29	30	32	28	21	30	33	33	29
4- 5-73	28	32	32	33	31	30	36	39	36	35	28	30	32	34	31	29	33	34	34	32
4-26-73	26	30	30	34	30	38	34	37	35	36	27	28	30	32	29	31	31	32	34	32
5-16-73	26	33	33	36	32	34	38	41	37	37	28	31	33	36	32	29	34	35	36	34
5-30-73	27	30	30	33	30	38	35	37	34	36	27	29	31	33	30	30	31	32	33	32
6-13-73	24	31	29	34	29	34	36	36	34	35	25	28	30	33	29	28	32	32	33	31
6-25-73	26	31	29	34	30	36	38	37	35	36	26	29	30	33	29	29	33	32	34	32
7- 2-73	25	30	29	34	30	32	38	37	35	36	25	28	30	32	29	28	32	32	33	31
7-24-73	22	31	28	33	29	26	36	36	34	33	25	28	29	31	28	24	32	31	33	30
8-14-73	22	31	30	35	29	25	36	38	35	33	24	29	31	33	29	23	32	33	34	30
8-28-73	24	30	30	34	29	28	35	37	34	33	28	28	30	32	29	26	31	32	33	31
9- 6-73	26	30	29	33	30	33	33	36	33	34	28	28	29	31	29	29	30	32	32	31
10- 3-73	26	30	29	34	30	35	34	38	35	36	28	29	31	33	30	30	31	33	34	32

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Nonfurrowed Watersheds																Site Mean			
	WS 22								WS 23								WS 26			
	1		2		3		4		1		2		3		4		1		2	
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Date	P <sup>2</sup>		P <sup>2</sup>		P <sup>2</sup>		P <sup>2</sup>		P <sup>2</sup>		P <sup>2</sup>		P <sup>2</sup>		P <sup>2</sup>		P <sup>2</sup>		P <sup>2</sup>	
4-17-74	27	31	30	34	31	31	41	38	38	35	38	27	29	31	33	30	32	33	33	34
5- 1-74	28	31	30	34	31	31	41	39	38	35	38	28	29	31	33	30	32	33	33	34
5-23-74	27	31	30	34	30	30	41	38	38	35	38	28	29	31	33	30	32	33	33	34
6- 5-74	28	32	31	34	31	31	40	41	40	37	40	28	29	32	33	30	32	34	34	35
6-19-74	28	30	29	34	30	30	29	38	38	34	35	27	29	31	33	30	28	32	33	34
7- 9-74	26	32	31	35	31	31	33	38	39	34	36	26	29	31	32	29	28	33	34	34
7-25-74	23	30	29	34	29	29	23	34	37	34	32	27	29	31	33	30	24	31	32	34
8- 5-74	22	31	30	35	29	29	23	35	39	35	33	24	29	32	34	29	23	32	33	35
8-21-74	24	33	32	37	31	31	26	36	39	36	34	27	30	32	34	31	26	33	35	36
9-18-74	21	29	28	33	28	28	22	32	37	33	31	23	28	30	32	28	22	30	32	33
10- 1-74	21	29	29	33	28	28	21	31	36	36	31	22	27	28	31	27	21	29	31	33
5-27-75	28	29	31	32	30	30	41	38	37	33	37	27	27	29	31	29	32	31	32	32
6-18-75	30	31	33	35	33	33	35	42	42	35	39	24	25	27	29	26	30	33	34	33
7-23-75	23	27	33	34	29	29	20	35	40	35	32	20	27	29	32	27	21	30	34	33
8-12-75	27	29	30	33	30	30	26	29	30	33	29	26	28	31	32	29	26	29	30	33
8-27-75	23	28	30	30	28	28	24	29	30	31	28	24	29	30	32	29	24	28	30	31
9-23-75	21	25	30	31	27	27	25	27	29	29	27	22	27	29	31	27	23	26	29	30
3-17-76	26	26	31	32	29	29	30	33	38	32	33	26	27	29	32	29	27	29	33	32
4- 6-76	25	26	30	32	28	28	29	33	37	33	33	26	26	28	30	28	27	28	32	32
4-20-76	25	26	30	31	28	28	35	33	36	31	34	28	27	29	30	28	29	28	32	31
5- 6-76	26	26	30	32	29	29	38	34	37	32	35	26	27	29	31	28	30	29	32	32
5-27-76	24	27	31	32	28	28	33	34	38	33	34	25	27	28	31	28	27	29	32	32
6- 9-76	22	26	31	33	28	28	29	34	37	32	33	26	27	29	31	28	26	29	32	32
6-28-76	25	26	30	32	28	28	38	37	37	32	36	25	27	29	31	28	30	30	32	32

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Nonfurrowed Watersheds															
	WS 22				WS 23				WS 26				Site Mean			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	P <sup>2</sup>															P
Date																
7-14-76	23	26	31	33	28	30	37	38	33	34	25	27	29	32	29	26
8-4-76	22	25	31	33	27	24	35	37	33	32	24	27	29	31	28	23
8-18-76	20	23	29	31	26	23	33	36	31	31	23	26	28	30	27	22
8-25-76	21	24	30	32	27	24	34	38	32	32	24	27	29	31	28	23
9-9-76	21	24	31	33	27	24	34	38	32	32	24	26	29	31	27	23
9-22-76	22	24	30	33	27	23	33	38	32	31	24	27	28	32	28	23
10-4-76	22	24	30	32	27	23	33	37	32	31	23	26	29	30	27	23
10-20-76	21	23	30	32	27	24	32	36	32	31	24	26	28	30	27	23
11-16-76	22	24	30	32	27	24	32	36	31	31	24	26	29	31	27	23
12-15-76	22	23	29	32	26	25	34	37	31	32	24	26	28	31	27	24
3-23-77	25	24	30	32	28	30	32	36	31	33	25	27	29	31	28	27
4-13-77	27	24	30	32	28	37	34	39	33	36	26	27	29	31	28	30
5-3-77	25	24	30	33	28	31	33	38	32	34	24	27	29	32	28	27
5-25-77	22	24	29	33	27	23	32	37	31	31	22	26	29	31	27	22
6-7-77	22	24	30	33	27	22	33	37	32	31	22	27	29	32	27	22
6-29-77	23	23	30	32	27	30	34	36	31	33	24	27	29	31	27	26
7-13-77	22	22	28	31	26	24	34	37	31	31	23	27	29	31	28	23
7-27-77	20	23	29	32	26	23	34	38	33	32	23	27	29	31	28	22
8-10-77	22	23	30	33	27	28	33	38	32	32	25	27	29	31	28	25
9-7-77	20	24	30	33	27	24	33	38	32	32	23	27	29	31	27	22
9-27-77	27	23	30	33	28	31	33	38	31	33	26	27	29	31	28	28
10-12-77	28	23	29	32	28	38	37	37	31	36	26	26	28	30	28	30
10-26-77	27	24	29	33	28	39	38	38	33	37	26	27	30	32	29	31
11-8-77	26	24	30	33	28	37	38	38	32	37	26	28	30	32	29	30

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Nonfurrowed Watersheds																Site Mean									
	WS 22								WS 23									WS 26								
	WS 22				WS 23				WS 23				WS 26					WS 26				Site Mean				
	1	2	3	4	p <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1		2	3	4	P	1	2	3	4	P
Date																										
4-13-78	31	27	32	35	31	42	40	39	37	40	30	30	32	34	31	35	32	35	35	31	35	32	35	35	34	
4-25-78	31	27	31	35	31	43	41	40	40	41	31	31	33	35	32	35	33	35	36	35	35	33	35	36	35	
5-10-78	31	27	32	36	31	44	42	41	41	42	29	30	31	34	31	35	33	35	37	35	35	33	35	37	35	
5-24-78	29	33	36	35	33	43	41	41	40	41	29	30	32	34	31	34	35	36	36	35	34	35	36	36	35	
6- 6-78	30	35	38	36	35	44	44	42	42	43	31	32	33	36	33	35	37	38	38	37	35	37	38	38	37	
6-22-78	28	35	39	37	35	32	39	40	38	37	29	32	35	37	33	30	35	38	37	35	30	35	38	37	35	
7-12-78	27	32	35	35	32	29	39	39	39	37	26	29	31	34	30	27	33	35	36	33	27	33	35	36	33	
7-26-78	29	32	36	35	33	33	39	41	41	38	29	30	33	35	32	30	34	37	37	34	30	34	37	37	34	
8- 9-78	28	32	37	36	33	34	40	41	41	39	29	31	32	35	32	30	34	37	37	35	30	34	37	37	35	
8-23-78	26	31	36	35	32	27	38	40	39	36	27	30	32	34	31	26	33	36	36	33	26	33	36	36	33	
9-21-78	27	30	34	34	31	30	37	40	40	37	28	29	32	34	31	28	32	35	36	33	28	32	35	36	33	
10- 3-78	26	29	34	34	31	28	37	39	38	35	26	30	30	33	30	26	32	34	35	32	26	32	34	35	32	
10-18-78	26	31	35	36	32	27	37	41	40	36	27	31	32	35	31	27	33	36	37	33	27	33	36	37	33	
10-31-78	26	30	35	35	31	27	36	40	39	35	27	30	32	34	31	26	32	35	36	32	26	32	35	36	32	
4-25-79	30	31	35	36	33	41	39	41	41	40	29	31	33	35	32	33	34	36	37	35	33	34	36	37	35	
5-16-79	30	32	36	38	34	38	40	42	41	40	28	31	33	34	32	32	34	37	38	35	32	34	37	38	35	
6- 6-79	26	31	35	36	32	30	38	40	40	37	27	30	32	34	31	28	33	35	37	33	28	33	35	37	33	
6-12-79	28	30	35	36	32	32	39	40	39	38	28	30	32	34	31	29	33	36	36	33	29	33	36	36	33	
6-26-79	24	30	34	36	31	28	38	40	39	36	26	31	33	34	31	26	33	35	36	33	26	33	35	36	33	
7-10-79	26	29	35	36	31	24	36	40	39	35	26	29	31	33	30	25	31	35	36	32	25	31	35	36	32	
7-24-79	24	29	35	36	31	23	36	41	40	35	24	31	33	35	31	24	32	36	37	32	24	32	36	37	32	
7-31-79	26	30	35	36	32	26	36	41	40	36	28	31	33	35	32	27	32	36	37	33	27	32	36	37	33	
8-15-79	24	28	35	36	31	25	35	40	39	35	25	29	31	35	30	25	31	35	37	32	25	31	35	37	32	
8-29-79	24	29	36	36	31	27	35	41	40	36	26	31	33	35	31	26	32	37	37	33	26	32	37	37	33	
9-11-79	23	28	34	36	30	26	34	40	40	35	26	31	33	35	31	25	31	36	37	32	25	31	36	37	32	

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Nonfurrowed Watersheds																									
	WS 22										WS 23						WS 26					Site Mean				
	1 2 3 4					p <sup>2</sup>	1 2 3 4					P	1 2 3 4					P	1 2 3 4				P			
	1	2	3	4			1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4	
Date																										
9-25-79	23	29	35	37	31		25	35	40	39	35	26	30	31	34	30	24	31	35	37		24	31	35	37	32
10-17-79	23	27	34	35	30		26	34	40	38	34	25	30	32	33	30	24	30	35	35		24	30	35	35	31
4-17-80	25	28	33	35	30		32	33	39	39	36	25	30	31	33	30	27	30	34	36		27	30	34	36	32
4-30-80	23	28	33	36	30		27	34	40	40	35	23	30	32	34	30	24	31	35	37		24	31	35	37	32
5-14-80	21	27	33	35	29		23	33	40	39	34	21	30	31	34	29	21	30	35	36		21	30	35	36	31
5-28-80	19	27	32	35	28		21	33	39	39	33	19	29	31	33	28	20	29	34	36		20	29	34	36	30
6-18-80	26	28	34	36	31		28	34	40	40	36	26	31	33	34	31	27	31	35	37		27	31	35	37	32
6-30-80	22	27	33	36	29		23	34	40	39	34	23	30	32	34	30	22	30	35	36		22	30	35	36	31
7-15-80	22	29	35	37	31		21	34	41	41	34	21	31	33	35	30	21	31	36	37		21	31	36	37	32
7-29-80	21	28	34	37	30		20	34	40	40	34	22	31	33	35	30	21	31	36	37		21	31	36	37	31
8-19-80	23	27	34	36	30		23	33	40	39	34	26	30	32	34	31	24	30	35	36		24	30	35	36	31
9- 3-80	23	28	29	35	28		23	33	40	39	34	24	30	32	34	30	23	30	34	36		23	30	34	36	31
9-30-80	21	26	34	36	29		22	34	39	40	34	22	30	32	34	30	22	30	35	37		22	30	35	37	31
10-21-80	26	27	34	36	31		31	33	40	38	36	29	30	32	34	31	29	30	35	36		29	30	35	36	33
11- 5-80	27	27	34	36	31		32	33	35	39	35	28	30	32	34	31	29	30	34	36		29	30	34	36	32

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrows of furrowed watersheds															
	WS 21				WS 24				WS 25				Site Mean			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Date	p <sup>2</sup>															
11-29-67	31	32	35	35	33	27	28	29	28	28	28	30	29	30	31	30
3-28-68	36	33	35	35	35	33	29	29	29	30	29	31	31	34	30	32
4-18-68	35	33	34	35	34	32	28	28	28	29	29	30	30	34	29	31
7- 9-68	43	34	36	36	37	43	31	30	31	33	37	33	33	41	32	35
7-20-68	41	34	35	35	36	40	31	31	32	33	36	32	32	39	32	34
8-13-68	38	34	36	36	36	34	30	31	32	32	32	30	31	34	32	33
8-28-68	41	36	37	37	38	42	33	34	35	36	40	35	32	41	35	36
10-23-68	35	35	37	37	36	34	31	32	32	32	28	31	31	32	32	33
4-23-69	43	35	36	36	37	42	31	31	31	34	38	32	31	41	32	35
5-20-69	44	36	37	37	38	42	32	31	31	34	41	33	32	42	34	36
7- 7-69	42	37	37	37	38	46	34	33	33	36	40	35	34	43	35	37
8-12-69	33	35	36	36	35	36	31	31	30	32	28	31	32	32	32	33
9-10-69	30	35	37	37	35	25	31	32	31	30	22	27	30	25	31	31
5-20-70	46	36	37	37	39	47	37	36	33	38	48	41	34	47	38	38
6-30-70	36	37	36	37	36	36	35	34	32	34	33	33	32	35	34	34
7-27-70	27	36	36	36	34	27	33	34	32	32	25	28	33	26	32	32
5- 4-71	49	44	41	40	44	44	38	38	38	40	43	39	36	45	40	40
6- 3-71	46	40	38	37	40	46	39	38	36	40	44	37	34	45	39	39
6-29-71	41	40	37	36	39	43	38	37	36	38	40	36	33	41	38	38
7-21-71	30	39	38	36	36	32	38	37	36	35	26	36	34	29	38	35
9- 9-71	41	36	37	37	38	38	36	35	34	36	40	36	34	40	36	36

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrows of furrowed watersheds															
	WS 21								WS 24							
	1 2 3 4				1 2 3 4				1 2 3 4				1 2 3 4			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Date	p <sup>2</sup>				WS 25				P				Site Mean			
4-6-72	48	45	38	37	42	47	44	38	34	41	46	43	36	37	36	41
5-16-72	47	45	38	37	42	48	41	37	35	40	45	42	37	36	37	41
6-1-72	45	42	37	36	40	45	39	36	34	39	43	40	35	35	36	39
6-13-72	43	43	37	37	40	43	41	37	35	39	40	41	35	36	36	39
6-27-72	43	43	40	41	42	43	38	36	35	38	37	39	34	36	37	39
7-10-72	40	40	36	36	38	41	39	36	34	38	34	39	35	35	35	37
7-20-72	38	40	36	36	38	36	37	36	34	36	32	38	35	35	35	36
7-26-72	41	40	36	36	38	43	38	35	33	37	40	37	34	35	35	37
8-16-72	40	40	36	36	38	42	38	36	34	37	37	38	35	36	35	37
8-29-72	36	39	35	36	37	38	37	35	34	36	27	35	34	35	35	35
9-13-72	34	38	36	36	36	36	37	35	33	35	30	35	33	35	35	35
10-4-72	32	37	35	36	35	29	37	34	33	33	28	34	34	34	34	33
4-5-73	37	40	38	39	38	43	39	36	35	38	38	36	35	35	36	37
4-26-73	44	40	36	36	39	45	38	34	33	38	43	38	36	34	34	38
5-16-73	46	44	40	40	42	47	41	37	36	40	43	41	38	37	37	41
5-30-73	43	40	36	36	39	44	38	35	32	37	40	37	35	34	34	38
6-13-73	44	40	36	37	39	43	38	35	33	37	40	39	36	36	35	38
6-25-73	45	41	36	37	40	43	39	36	33	38	41	40	38	40	37	39
7-2-73	43	41	36	37	39	43	39	36	33	37	40	39	37	37	36	38
7-24-73	40	39	35	36	37	37	37	34	32	35	34	37	35	37	35	36
8-14-73	37	41	37	38	38	30	38	35	34	34	29	36	36	38	37	36
8-28-73	40	39	36	38	38	35	37	34	33	35	31	34	35	36	35	36
9-6-73	41	38	36	37	38	39	36	34	33	35	38	33	34	36	34	36

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrows of furrowed watersheds																Site Mean			
	WS 21								WS 24								WS 25			
	1 2 3 4				1 2 3 4				1 2 3 4				1 2 3 4				1 2 3 4			
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
10- 3-73	42	40	37	38	39	43	38	36	34	37	40	35	35	36	36	42	38	36	36	38
4-17-74	44	41	37	38	40	44	38	36	36	38	42	39	35	38	38	43	39	36	37	39
5- 1-74	45	41	37	38	40	45	40	36	36	39	43	40	36	37	39	44	40	36	37	39
5-23-74	45	39	36	37	39	45	40	37	34	39	43	40	37	37	39	44	40	37	36	39
6- 5-74	44	41	38	40	41	46	42	38	38	41	43	42	38	38	40	44	42	38	38	41
6-19-74	39	41	37	38	39	39	39	35	34	37	33	39	37	37	36	37	40	36	36	37
7- 9-74	40	40	37	37	39	38	40	38	34	37	30	35	35	36	34	36	38	36	36	37
7-25-74	35	38	36	38	37	31	38	35	34	34	28	35	35	37	34	31	37	35	36	35
8- 5-74	33	40	37	38	37	28	38	35	34	34	25	30	34	36	31	29	36	36	36	34
8-21-74	36	40	39	40	39	35	38	36	35	36	29	33	35	38	34	33	37	37	38	36
9-18-74	31	38	36	38	36	28	35	34	33	32	24	28	32	35	30	28	33	34	35	32
10- 1-74	29	36	34	36	34	26	33	32	32	31	24	27	31	34	29	26	32	33	34	31
5-27-75	44	38	35	36	38	47	43	39	36	41	43	39	37	44	41	45	40	37	39	40
6-18-75	46	44	43	41	43	46	44	39	35	41	36	36	33	33	35	43	41	38	36	40
7-23-75	25	42	41	39	37	14	37	35	31	29	8	29	34	35	26	16	36	36	35	31
8-12-75	30	38	35	35	35	31	37	35	36	35	31	40	36	38	36	31	39	35	36	35
8-27-75	13	27	29	30	25	10	27	29	31	24	10	27	33	35	26	11	27	30	32	25
9-23-75	3	19	26	28	19	4	20	25	28	19	0	21	26	29	19	2	20	26	29	19
3-17-76	42	39	36	35	38	41	39	36	35	38	42	36	32	32	35	42	38	35	34	37
4- 6-76	38	39	36	35	37	40	37	35	34	36	40	36	33	33	35	39	37	35	34	36
4-20-76	41	39	35	35	37	42	38	33	32	36	40	36	33	32	35	41	38	34	33	36
5- 6-76	40	41	37	36	38	43	38	35	33	37	40	37	34	34	36	41	39	35	34	37

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrows of furrowed watersheds																
	WS 21					WS 24					WS 25					Site Mean	
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2
	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P	1	2
Date																	
5-27-76	42	39	36	35	38	42	38	34	34	37	39	37	34	34	36	41	38
6- 9-76	37	38	36	35	36	34	38	33	33	34	35	37	33	34	35	35	38
6-28-76	42	39	40	38	40	41	38	34	32	36	38	38	34	34	36	41	38
7-14-76	39	39	36	36	37	38	38	34	33	36	37	37	34	34	35	38	38
8- 4-76	32	38	36	35	35	30	37	34	33	33	28	34	33	34	32	30	36
8-18-76	32	37	34	34	34	27	35	32	31	31	26	31	32	32	30	28	34
8-25-76	28	39	36	35	35	28	36	33	32	32	25	31	33	33	30	27	35
9- 9-76	30	39	35	35	35	26	35	33	32	31	24	29	32	33	29	27	34
9-22-76	29	38	36	35	34	27	35	33	32	32	24	29	31	33	29	27	34
10- 4-76	32	37	35	35	34	26	34	32	31	31	25	29	31	32	29	27	33
10-20-76	27	36	36	35	34	27	34	32	31	31	24	28	31	32	28	26	33
11-16-76	29	36	35	34	34	27	34	33	31	31	24	28	31	32	29	27	33
12-15-76	31	36	34	34	34	27	33	31	31	31	24	28	31	32	29	27	32
3-23-77	40	39	36	35	37	39	35	33	31	35	40	34	33	32	35	40	36
4-13-77	43	39	36	36	39	42	39	35	32	37	40	37	34	33	36	42	38
5- 3-77	37	41	37	36	37	41	37	33	33	36	32	38	33	33	34	36	38
5-25-77	28	40	37	35	35	19	39	34	32	31	18	36	33	32	30	22	38
6- 7-77	24	39	37	35	34	17	36	34	32	30	18	30	28	32	27	19	35
6-29-77	34	40	36	34	36	25	39	34	31	32	23	37	33	32	31	27	39
7-13-77	27	39	37	37	35	24	37	36	32	32	15	34	34	33	29	22	37
7-27-77	24	40	37	36	34	24	37	33	32	31	23	32	33	33	30	24	36
8-10-77	34	38	36	37	36	34	36	34	32	34	27	33	32	32	31	32	36
9- 7-77	28	38	36	36	34	29	36	34	32	33	26	31	32	32	30	27	35
9-27-77	40	38	35	36	37	38	36	34	33	35	37	32	32	33	33	38	35

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrows of furrowed watersheds																														
	WS 21							WS 24							WS 25																
	1			2			3			4			P			1			2			3			4			P			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	P		
Date																															
10-12-77	42	40	36	35	38	38	43	37	33	31	36	40	37	33	33	36	42	38	34	33	42	38	34	33	42	38	34	33	36	37	
10-26-77	40	41	37	36	39	36	43	36	34	32	36	38	36	34	33	35	40	38	35	34	40	38	35	34	40	38	35	34	35	37	
11- 8-77	38	40	36	35	37	37	43	38	33	33	37	41	36	34	35	36	41	40	38	34	40	38	34	34	40	38	34	34	36	37	
4-13-78	48	43	39	39	42	42	47	41	36	34	39	46	40	37	38	40	47	41	37	37	47	41	37	37	47	41	37	37	40	41	
4-25-78	44	46	40	39	42	42	45	41	36	34	39	45	41	37	37	40	45	43	38	37	45	43	38	37	45	43	38	37	40	41	
5-10-78	48	41	39	40	42	42	48	41	36	35	40	44	41	38	38	40	44	41	38	37	44	41	38	37	44	41	38	37	40	41	
5-24-78	45	47	40	38	42	42	47	41	37	36	40	46	43	38	38	41	46	44	39	37	46	44	39	37	46	44	39	37	40	41	
6- 6-78	49	45	40	40	43	43	48	44	38	38	42	47	45	40	40	43	48	44	39	39	48	44	39	39	48	44	39	39	43	43	
6-22-78	35	48	42	40	41	41	32	49	40	38	39	31	42	42	40	39	32	46	41	39	32	46	41	39	32	46	41	39	40	40	
7-12-78	36	43	39	38	39	39	39	40	36	35	38	36	39	37	37	37	37	41	37	36	37	41	37	36	37	41	37	36	38	38	
7-26-78	43	42	38	38	40	40	44	41	36	35	39	39	40	37	37	38	42	41	37	37	42	41	37	37	42	41	37	37	39	39	
8- 9-78	40	46	41	39	41	41	45	42	37	36	40	38	41	38	37	38	41	43	39	37	41	43	39	37	41	43	39	37	40	40	
8-23-78	39	40	38	38	39	39	41	41	36	36	38	30	38	37	37	35	37	40	37	37	37	40	37	37	37	40	37	37	38	38	
9-21-78	40	40	37	37	38	38	43	42	36	35	39	32	35	36	36	35	38	39	36	36	38	39	36	36	38	39	36	36	37	37	
10- 3-78	38	41	37	36	38	38	40	40	36	34	37	30	34	36	36	34	36	38	36	35	36	38	36	35	36	38	36	35	36	36	
10-18-78	36	42	39	38	39	39	40	41	36	36	38	29	35	39	37	35	35	40	38	37	35	40	38	37	35	40	38	37	37	37	
10-31-78	35	42	38	38	38	38	40	41	36	35	38	29	34	36	35	33	34	39	37	37	34	39	37	36	34	39	37	36	36	36	
4-25-79	45	46	41	39	43	43	47	41	36	35	40	43	43	40	38	41	45	43	39	37	45	43	39	37	45	43	39	37	41	41	
5-16-79	43	48	43	40	44	44	41	47	40	37	41	37	45	40	38	40	40	47	41	38	40	47	41	38	40	47	41	38	42	42	
6- 6-79	42	43	39	39	41	41	43	42	37	35	39	35	38	37	36	37	40	41	38	36	40	41	38	36	40	41	38	36	39	39	
6-12-79	39	43	39	38	40	40	42	41	38	36	39	34	38	37	37	36	38	41	38	37	38	41	38	37	38	41	38	37	38	38	
6-26-79	31	43	39	40	38	38	38	41	37	35	38	31	36	38	37	36	33	40	38	37	33	40	38	37	33	40	38	37	37	37	
7-10-79	37	41	38	38	38	38	32	40	36	34	35	27	33	36	36	33	32	38	37	37	32	38	37	36	32	38	37	36	36	36	

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrows of furrowed watersheds															
	WS 21								WS 24							
	1 2 3 4				1 2 3 4				1 2 3 4				1 2 3 4			
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	Site Mean
Date																
7-24-79	28	42	40	39	37	34	40	36	35	37	26	33	37	38	29	36
7-31-79	33	44	40	40	39	35	41	37	35	37	31	36	38	38	33	37
8-15-79	27	41	40	38	37	31	42	35	35	36	26	32	36	37	28	35
8-29-79	42	43	40	40	41	36	41	37	36	37	30	35	37	38	36	38
9-11-79	34	43	39	38	38	38	40	38	35	38	34	35	36	38	35	37
9-25-79	37	42	39	41	40	32	40	37	35	36	27	34	36	37	32	36
10-17-79	36	40	38	39	38	30	38	35	34	34	26	32	35	36	30	35
4-17-80	35	41	39	39	38	36	38	36	35	36	37	32	34	36	36	36
4-30-80	30	41	39	39	37	33	39	37	35	36	33	33	35	36	32	36
5-14-80	31	40	39	40	37	29	38	37	35	34	26	32	35	35	29	35
5-28-80	29	39	37	40	36	26	37	36	35	33	23	30	34	36	26	33
6-18-80	39	43	39	40	40	37	38	36	36	37	35	34	36	37	37	38
6-30-80	29	41	39	39	37	31	38	35	35	35	27	32	34	36	29	35
7-15-80	25	43	40	40	37	28	39	37	36	35	24	31	36	37	26	35
7-29-80	23	42	39	40	36	27	39	37	36	35	24	31	36	37	25	34
8-19-80	38	42	39	41	40	31	38	35	35	35	28	30	35	37	32	36
9- 3-80	34	41	38	40	38	30	38	36	35	35	27	30	34	37	30	35
9-30-80	32	41	38	40	38	28	38	35	36	34	25	30	34	37	28	34
10-21-80	42	41	38	40	40	40	38	36	36	37	37	29	34	37	40	37
11- 5-80	41	41	38	40	40	39	38	36	35	37	38	30	34	37	39	38

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Ridges of furrowed watersheds												Site Mean							
	WS 21					WS 24					WS 25									
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
11-29-67	38	33	34	34	35	23	26	29	28	26	29	32	27	30	29	30	31	30	31	30
3-28-68	40	33	35	35	36	25	27	29	29	28	30	31	27	30	29	32	30	30	31	31
4-18-68	40	32	34	34	35	25	27	29	28	27	30	32	27	30	30	32	30	30	30	31
7- 9-68	38	37	35	35	36	30	29	30	30	30	28	33	31	31	31	32	33	32	32	32
7-20-68	28	35	35	35	33	24	27	29	29	27	23	31	31	31	29	25	31	31	32	30
8-13-68	24	34	37	36	33	23	28	30	29	28	21	29	30	31	28	23	30	32	32	29
8-28-68	36	37	38	39	38	30	28	30	30	29	28	28	30	31	29	31	31	33	33	32
10-23-68	26	34	37	37	33	23	28	30	29	27	22	28	29	31	27	23	30	32	32	29
4-23-69	41	37	37	37	38	42	33	33	33	35	37	35	31	33	34	40	35	33	34	36
5-20-69	42	36	37	37	38	40	37	33	33	36	39	36	31	33	35	40	36	34	34	36
7- 7-69	41	39	38	38	39	37	35	33	34	35	35	35	32	33	34	38	37	34	35	36
8-12-69	24	35	36	37	33	25	32	33	33	31	22	29	33	35	30	24	32	34	35	31
9-10-69	21	32	38	38	32	20	28	32	33	28	21	26	31	33	28	21	29	34	35	29
5-20-70	46	41	41	40	42	44	40	35	34	38	40	41	34	32	37	43	40	37	35	39
6-30-70	30	37	39	36	36	26	35	32	33	31	23	31	33	36	31	26	34	35	35	32
7-27-70	22	32	39	39	33	21	29	33	34	29	20	25	31	32	27	21	29	34	35	30
5- 4-71	43	39	40	38	40	37	35	35	36	36	40	40	35	34	37	40	38	37	36	38
6- 3-71	45	39	40	39	41	35	39	34	34	35	41	38	33	34	36	40	39	36	36	37
6-29-71	39	39	39	37	39	37	37	32	33	35	33	38	32	32	34	36	38	35	34	36
7-21-71	24	38	39	38	35	23	34	33	33	31	20	31	32	33	29	22	34	35	34	31
9- 9-71	36	38	39	38	38	36	35	34	34	35	36	26	28	32	30	36	33	34	34	34



Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Ridges of furrowed watersheds																			
	WS 21					WS 24					WS 25					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P					1
Date																				
4-17-74	41	40	40	39	40	39	36	34	32	35	38	34	31	34	34	40	37	35	35	36
5-1-74	42	39	40	39	40	40	40	37	33	36	39	36	30	33	35	40	38	34	35	37
5-23-74	41	40	39	39	40	39	37	34	32	36	38	37	30	34	35	39	38	34	35	37
6-5-74	42	43	42	41	42	37	38	34	33	36	38	38	32	35	35	39	40	36	36	38
6-19-74	30	39	40	39	37	28	36	34	32	33	29	34	30	34	32	29	36	35	35	34
7-9-74	32	37	40	39	37	27	35	34	33	32	26	31	31	34	30	28	34	35	35	33
7-25-74	24	35	40	39	34	21	33	35	33	30	26	29	30	33	29	23	32	35	35	31
8-5-74	23	35	40	39	34	21	32	34	33	30	19	28	30	33	28	21	32	35	35	31
8-21-74	24	36	40	40	35	23	34	34	34	31	23	29	31	34	29	23	33	35	36	32
9-18-74	21	33	38	39	33	19	30	33	32	28	19	26	28	32	26	20	30	33	34	29
10-1-74	20	31	37	37	31	19	28	30	30	27	18	25	27	31	25	19	28	31	33	28
5-27-75	44	39	39	40	40	44	43	37	36	40	42	44	38	42	41	43	42	38	39	41
6-18-75	44	43	41	40	42	42	41	36	33	38	35	39	35	35	36	40	41	37	36	39
7-23-75	25	40	40	42	37	19	36	34	30	30	19	27	35	32	28	21	34	36	35	32
8-12-75	33	37	37	37	36	34	37	37	37	36	33	38	37	36	36	33	38	37	37	36
8-27-75	17	28	30	31	27	13	29	31	32	26	19	28	31	32	27	17	28	31	32	27
9-23-75	16	21	25	28	22	17	22	25	27	23	16	24	27	28	24	16	22	25	28	23
3-17-76	42	38	34	34	37	37	35	33	32	34	36	32	30	33	33	38	35	32	33	35
4-6-76	38	36	36	36	36	35	35	33	32	34	34	29	29	31	31	35	33	33	33	34
4-20-76	41	37	37	36	38	38	36	32	31	34	37	32	28	32	32	39	35	32	33	35
5-6-76	41	38	37	37	38	37	36	33	32	34	38	35	29	32	33	38	36	33	34	35
5-27-76	37	38	38	37	37	30	36	34	33	33	31	34	30	33	32	33	36	34	34	34
6-9-76	32	40	37	36	36	25	35	33	32	31	26	32	30	33	30	27	36	33	34	33
6-28-76	42	39	39	38	29	41	35	33	31	35	40	34	30	32	34	41	36	34	34	36
7-14-76	32	38	37	37	36	25	34	34	32	31	27	33	30	32	30	28	35	33	33	33

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Ridges of furrowed watersheds																			
	WS 21					WS 24					WS 25					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
8- 4-76	26	36	38	36	34	22	32	33	32	30	21	28	30	32	28	23	32	33	33	30
8-18-76	23	34	35	35	32	20	29	32	30	28	19	26	28	31	26	21	30	32	32	29
8-25-76	24	36	37	37	33	21	30	33	32	29	22	27	29	32	27	22	31	33	34	30
9- 9-76	23	35	38	36	33	21	29	33	31	28	21	26	29	32	27	21	30	33	33	29
9-22-76	23	34	37	36	33	22	29	32	31	29	21	26	29	32	27	22	30	33	33	29
10- 4-76	23	33	37	36	32	21	29	32	31	28	21	26	28	31	26	22	29	32	33	29
10-20-76	24	33	36	36	32	22	28	32	31	28	21	25	27	31	26	22	29	32	32	29
11-16-76	24	33	36	35	32	22	29	32	31	28	22	26	28	31	27	23	29	32	32	29
12-15-76	25	33	36	35	32	22	28	31	31	28	22	26	28	31	26	23	29	31	32	29
3-23-77	36	35	37	36	36	31	33	32	32	32	34	29	28	31	31	34	32	33	33	33
4-13-77	41	38	39	36	38	36	36	32	31	34	38	33	29	32	33	38	35	33	33	35
5- 3-77	38	38	38	37	38	30	35	33	31	32	31	32	28	32	31	33	35	33	33	33
5-25-77	27	37	38	36	35	22	34	32	31	30	22	29	28	32	28	24	33	33	33	31
6- 7-77	24	37	37	37	34	20	32	32	31	29	16	32	34	33	29	20	33	34	34	30
6-29-77	35	37	37	36	36	30	35	32	31	32	28	31	28	32	30	31	34	32	33	32
7-13-77	27	37	37	36	34	23	34	32	31	30	22	29	28	32	28	24	34	32	33	31
7-27-77	24	37	38	37	34	21	33	33	31	29	19	28	28	32	27	21	33	33	33	30
8-10-77	24	36	38	37	34	24	33	32	31	30	22	28	28	32	27	23	32	33	33	30
9- 7-77	22	35	37	37	33	20	31	33	31	29	19	27	28	31	26	20	31	32	33	29
9-27-77	30	35	38	37	35	24	31	31	31	29	27	28	29	32	29	27	31	33	33	31
10-12-77	44	38	37	36	39	40	37	33	30	35	38	38	32	33	35	41	38	34	33	36
10-26-77	41	38	38	37	38	39	38	33	32	36	38	39	33	35	36	39	38	35	35	37
11- 8-77	39	37	37	37	37	38	38	34	32	35	37	38	33	37	36	38	38	35	35	36
4-13-78	45	43	40	39	42	41	42	39	34	39	44	43	36	37	40	43	43	39	36	40
4-25-78	44	43	41	39	42	44	41	36	35	39	45	44	36	37	40	44	43	38	37	40

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Ridges of furrowed watersheds																			
	WS 21					WS 24					WS 25					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
5-10-78	47	44	41	40	43	45	42	35	34	39	44	45	38	38	41	46	44	38	37	41
5-24-78	45	44	41	39	42	44	46	36	34	40	42	46	39	39	42	44	45	39	38	41
6- 6-78	46	45	42	41	43	43	47	37	36	41	43	48	41	40	43	44	47	40	39	42
6-22-78	38	46	43	42	42	32	47	38	37	38	35	44	40	40	40	35	46	40	39	40
7-12-78	30	40	40	39	37	26	41	35	34	34	27	37	37	36	34	27	39	37	36	35
7-26-78	31	41	40	38	38	28	41	36	34	35	28	37	37	37	35	29	39	38	36	36
8- 9-78	30	42	41	40	38	27	41	36	35	35	27	37	37	37	35	28	40	38	37	36
8-23-78	25	39	40	39	36	24	38	36	35	33	25	34	36	37	33	25	37	37	37	34
9-21-78	27	38	39	38	36	27	36	35	34	33	25	32	34	36	32	26	35	36	36	33
10- 3-78	26	37	39	38	35	25	36	34	34	32	24	31	33	36	31	25	35	35	36	33
10-18-78	27	39	40	39	36	25	37	36	35	33	24	33	34	36	32	25	36	37	37	34
10-31-78	26	37	39	38	35	24	35	35	34	32	23	32	33	35	31	24	35	36	36	33
4-25-79	47	43	42	40	43	46	45	36	34	40	45	46	38	38	41	46	45	39	37	42
5-16-79	44	44	43	41	43	42	43	37	36	40	41	47	38	40	41	42	44	39	39	41
6- 6-79	37	41	41	40	40	30	41	35	34	35	31	42	37	38	37	33	41	38	37	37
6-12-79	36	41	41	40	39	30	41	36	35	35	30	42	37	38	37	32	41	38	38	37
6-26-79	28	40	41	39	37	24	39	36	34	33	24	35	36	38	33	25	38	38	37	34
7-10-79	26	38	41	40	36	22	36	35	33	32	22	32	35	35	31	23	36	37	36	33
7-24-79	25	38	40	39	36	22	36	36	35	32	20	32	35	37	31	22	35	37	37	33
7-31-79	26	39	41	40	36	24	35	36	35	32	24	32	35	37	32	25	35	37	37	34
8-15-79	26	37	40	40	36	24	36	36	35	33	21	31	34	36	30	24	35	37	37	33
8-29-79	25	39	42	41	36	23	35	37	35	32	22	31	34	37	31	23	35	37	38	33
9-11-79	25	37	40	39	35	23	34	36	35	32	21	31	33	37	30	23	34	37	37	33
9-25-79	26	38	41	41	37	23	34	36	34	32	21	30	33	35	30	23	34	36	37	33
10-17-79	24	37	40	39	35	22	34	35	33	31	20	29	32	34	29	22	33	36	36	32

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Ridges of furrowed watersheds																			
	WS 21					WS 24					WS 25					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
4-17-80	31	37	39	39	37	28	33	34	33	32	29	29	31	35	31	30	33	35	36	33
4-30-80	26	38	41	39	36	23	33	35	34	31	24	30	32	36	31	24	34	36	37	33
5-14-80	21	37	40	39	34	20	32	35	34	30	18	29	31	35	28	20	33	35	36	31
5-28-80	19	36	39	38	33	16	31	34	32	29	16	28	31	34	27	17	32	35	35	30
6-18-80	24	37	41	40	35	24	33	35	34	32	25	31	32	36	31	24	34	36	36	33
6-30-80	21	36	40	39	34	19	32	35	34	30	20	30	31	36	29	20	33	35	36	31
7-15-80	19	37	41	40	34	20	32	36	35	31	19	30	32	36	29	19	33	36	37	31
7-29-80	19	37	41	40	34	19	33	37	35	31	19	30	32	37	30	19	33	37	37	32
8-19-80	22	36	40	40	35	22	31	35	34	30	21	28	31	35	29	22	32	35	36	31
9- 3-80	22	37	40	40	34	21	32	35	34	30	21	29	31	35	29	21	32	35	36	31
9-30-80	20	36	40	40	34	20	32	35	34	30	19	29	31	35	29	20	32	35	36	31
10-21-80	25	36	40	40	35	25	32	34	34	31	25	29	31	35	30	25	32	35	36	32
11- 5-80	25	36	40	39	35	25	32	35	34	32	27	29	31	36	31	26	32	35	36	32

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrowed watershed. average of furrows and ridges															
	WS 21								WS 24							
	1 2 3 4				1 2 3 4				1 2 3 4				1 2 3 4			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Date																
11-29-67	34	33	34	34	34	25	27	29	28	27	30	30	28	30	30	31
3-28-68	38	33	35	35	35	29	28	29	29	29	32	30	28	31	30	31
4-18-68	37	32	34	34	34	29	27	28	28	28	32	30	28	30	30	31
7- 9-68	40	35	36	36	37	36	30	30	30	32	32	33	31	32	32	33
7-20-68	34	35	35	35	35	32	29	30	30	30	29	32	31	31	32	32
8-13-68	31	34	36	36	34	28	29	31	30	30	26	30	30	31	29	31
8-28-68	39	36	38	38	38	36	30	32	32	32	34	31	31	33	32	34
10-23-68	30	35	37	37	35	28	30	31	31	30	25	29	30	32	29	31
4-23-69	42	36	36	36	37	42	32	32	32	34	38	33	31	33	34	35
5-20-69	43	36	37	37	38	41	35	32	32	35	40	34	31	33	35	36
7- 7-69	42	38	38	37	39	42	35	33	33	36	37	35	33	34	36	36
8-12-69	29	35	36	36	34	30	32	32	32	31	25	30	32	34	30	32
9-10-69	25	33	37	37	33	23	30	32	32	29	21	26	31	34	28	30
5-20-70	46	38	39	38	40	45	38	35	34	38	44	41	34	32	38	39
6-30-70	33	37	38	36	36	31	35	33	32	33	28	32	32	34	32	33
7-27-70	25	34	38	37	33	24	31	34	33	30	22	26	32	33	28	31
5- 4-71	46	42	41	39	42	40	37	36	37	38	41	39	35	34	37	39
6- 3-71	46	39	39	38	41	40	39	36	35	38	42	38	34	34	37	38
6-29-71	40	40	38	37	39	40	38	35	34	37	37	37	33	33	35	37
7-21-71	27	39	39	37	35	27	36	35	34	33	23	33	33	34	31	33
9- 9-71	38	37	38	37	38	37	36	34	34	35	38	31	31	33	33	35

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrowed watershed average of furrows and ridges																Date			
	WS 21								WS 25											
	WS 24				WS 25				WS 25				Site Mean							
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1		2	3	4
4- 6-72	46	44	38	37	41	46	44	37	34	40	44	41	35	35	39	44	43	36	35	40
5-16-72	46	45	40	39	42	46	43	37	35	40	44	43	36	35	40	44	44	38	36	41
6- 1-72	43	43	39	37	41	43	41	36	33	39	41	41	35	34	38	43	42	37	35	39
6-13-72	40	43	39	38	40	39	42	36	34	38	36	41	35	36	37	38	42	37	36	38
6-27-72	39	42	40	41	40	37	39	35	34	36	34	38	34	35	35	36	40	36	36	37
7-10-72	35	41	38	37	38	34	39	36	34	36	29	36	35	35	34	33	39	36	35	36
7-20-72	33	41	38	37	37	31	37	35	33	34	28	35	34	34	33	31	37	36	35	35
7-26-72	38	40	38	37	38	36	39	35	33	36	34	36	33	34	34	36	38	35	35	36
8-16-72	36	40	38	37	38	35	36	35	33	35	32	35	34	35	34	34	37	36	35	35
8-29-72	33	39	38	37	36	32	36	34	33	34	29	33	33	35	32	31	36	35	35	34
9-13-72	30	38	38	37	36	29	35	34	33	33	26	32	32	34	31	28	35	35	35	33
10- 4-72	28	36	36	34	33	25	34	34	33	31	24	33	33	32	30	25	34	34	33	32
4- 5-73	34	40	40	40	38	35	37	35	34	35	35	34	33	35	34	35	37	36	36	36
4-26-73	42	39	38	37	39	42	35	34	32	36	40	34	33	34	35	41	36	35	34	37
5-16-73	43	43	41	41	42	40	39	37	35	38	38	37	35	36	37	40	39	38	37	39
5-30-73	42	39	37	37	39	40	36	34	32	35	39	34	32	33	34	40	36	34	34	36
6-13-73	41	40	39	38	39	40	37	35	33	36	37	36	33	34	35	39	38	35	35	37
6-25-73	43	42	39	39	41	41	39	35	34	37	39	40	34	37	38	41	40	36	36	39
7- 2-73	41	41	38	38	40	39	39	35	33	36	37	39	34	35	36	39	39	36	36	37
7-24-73	34	39	37	37	37	31	36	34	32	33	29	34	32	35	32	31	36	34	35	34
8-14-73	31	40	39	40	37	27	36	35	34	33	25	33	33	36	32	27	36	36	36	34
8-28-73	33	38	38	39	37	29	35	34	33	33	27	31	32	34	31	29	35	35	35	33
9- 6-73	35	36	37	37	36	33	34	33	32	33	33	31	31	34	32	34	34	34	34	34
10- 3-73	38	38	38	39	38	36	36	35	33	35	36	32	33	35	34	37	35	35	35	36

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2:																
	WS 21							Furrowed watershed average of furrows and ridges							WS 25		
	WS 24							WS 24							WS 25		
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2
Date																	
4-17-74	42	40	38	39	40	42	37	35	34	37	40	36	33	36	36	41	38
5-1-74	43	40	38	39	40	43	38	35	34	37	41	38	33	35	37	42	39
5-23-74	43	40	38	38	40	42	38	35	33	37	40	39	33	35	37	42	39
6-5-74	43	42	40	40	41	41	40	36	35	38	40	40	35	36	38	42	41
6-19-74	35	40	38	38	38	33	38	35	33	35	31	36	33	35	34	33	38
7-9-74	36	39	38	38	38	32	37	36	33	35	28	33	33	35	32	32	36
7-25-74	29	37	38	38	36	26	35	35	33	32	27	32	32	35	31	27	34
8-5-74	28	37	39	39	36	24	35	35	34	32	22	29	32	35	30	25	34
8-21-74	30	38	39	40	37	29	36	35	34	34	26	31	33	36	31	28	35
9-18-74	26	35	37	38	34	24	32	33	32	30	21	27	30	33	28	24	32
10-1-74	24	34	35	36	32	22	31	31	31	29	21	26	29	32	27	23	30
5-27-75	44	38	37	38	39	46	43	38	36	40	43	41	38	43	41	44	41
6-18-75	45	43	42	41	43	44	43	37	34	39	36	37	34	34	35	42	41
7-23-75	25	41	40	41	37	17	36	34	31	29	13	28	34	34	27	18	35
8-12-75	32	38	36	36	35	32	37	36	37	36	32	39	36	37	36	32	38
8-27-75	15	28	29	30	26	12	28	30	31	25	15	27	32	34	27	14	28
9-23-75	9	20	25	28	21	10	21	25	28	21	8	23	27	29	22	9	21
3-17-76	42	38	35	35	37	39	37	35	33	36	39	34	31	32	34	40	36
4-6-76	38	37	36	35	37	37	36	34	33	35	37	32	31	32	33	37	35
4-20-76	41	38	36	35	38	40	37	32	32	35	39	34	31	32	34	40	36
5-6-76	41	39	37	36	38	40	37	34	32	36	39	36	31	33	35	40	38
5-27-76	39	39	37	36	38	36	37	34	33	35	35	36	32	34	34	37	37

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrowed watershed average of furrows and ridges																							
	WS 21						WS 24						WS 25						Site Mean					
	1	2	3	4	P <sup>2</sup>		1	2	3	4	P		1	2	3	4	P		1	2	3	4	P	
	Date																							
6- 9-76	34	39	37	36	36		29	37	33	32	33	30	35	31	34	32	31	37	34	34	34	34	34	34
6-28-76	42	39	39	38	39		41	36	33	32	36	39	36	32	33	35	41	37	35	34	37	35	34	37
7-14-76	35	38	36	36	37		32	36	34	32	33	32	35	32	33	33	33	36	34	34	34	34	34	34
8- 4-76	29	37	37	36	35		26	34	34	32	31	25	31	31	33	30	26	34	34	34	34	34	34	32
8-18-76	27	35	34	34	33		24	32	32	31	30	23	29	30	31	28	25	32	32	32	32	32	32	30
8-25-76	26	37	37	36	34		25	33	33	32	31	24	29	31	32	29	25	33	33	33	33	33	33	31
9- 9-86	26	37	36	36	34		23	32	33	32	30	23	28	30	32	28	24	32	33	33	33	33	33	31
9-22-76	26	36	36	36	33		24	32	33	32	30	23	28	30	32	28	24	32	33	33	33	33	33	31
10- 4-76	27	35	36	35	33		24	32	32	31	30	23	27	30	32	28	24	31	32	33	32	33	33	30
10-20-76	26	35	36	36	33		24	31	32	31	29	22	26	29	31	27	24	31	32	33	32	33	33	30
11-16-76	26	35	36	35	33		24	31	32	31	30	23	27	29	32	28	25	31	32	32	32	32	32	30
12-15-76	28	34	35	35	33		24	31	31	31	29	23	27	29	31	27	25	31	32	32	32	32	32	30
3-23-77	38	37	37	36	37		35	34	33	32	33	37	31	30	31	33	37	34	33	33	33	33	33	34
4-13-77	42	38	37	36	38		39	37	33	32	35	39	35	31	32	34	40	37	34	33	33	33	33	36
5- 3-77	37	39	37	36	37		35	36	33	32	34	31	35	30	32	32	35	37	34	34	34	34	34	35
5-25-77	28	38	37	36	35		21	36	33	31	30	20	33	31	32	29	23	36	34	33	33	33	33	31
6- 7-77	24	38	37	36	34		18	34	33	32	29	17	31	31	32	28	20	34	34	34	33	33	33	30
6-29-77	34	38	37	35	36		27	37	33	31	32	25	34	31	32	30	29	36	33	32	32	32	32	33
7-13-77	27	38	37	36	35		24	36	34	31	31	18	32	31	32	28	23	35	34	33	33	33	33	31
7-27-77	24	38	37	37	34		22	35	33	32	30	21	30	31	32	29	22	34	34	34	34	34	34	31
8-10-77	29	37	37	37	35		29	35	33	31	32	24	30	30	32	29	27	34	33	33	33	33	33	32
9- 7-77	25	36	36	36	33		24	34	33	32	31	22	29	30	32	28	24	33	33	33	33	33	33	31
9-27-77	35	36	37	36	36		31	34	32	32	32	32	30	30	32	31	33	33	33	33	33	33	33	33
10-12-77	43	39	37	35	38		41	37	33	31	35	39	37	32	33	35	41	38	34	33	33	33	33	36

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrowed watershed average of furrows and ridges																													
	WS 21							WS 24							WS 25															
	1			2			3			4			P			1			2			3			4			P		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	P	
Date																														
10-26-77	40	40	37	37	39				41	37	34	32	36			38	38	33	34	36					40	38	35	34	37	
11- 8-77	38	39	36	36	37				40	38	34	32	36			39	37	34	36	36					39	38	35	34	36	
4-13-78	46	43	40	39	42				44	41	38	34	39			45	41	37	37	40					45	42	38	37	40	
4-25-78	44	45	40	39	42				45	41	36	35	39			45	42	37	37	40					45	43	38	37	40	
5-10-78	47	43	40	40	42				47	42	36	35	40			44	43	38	38	41					46	42	38	37	41	
5-24-78	45	45	40	39	42				46	44	37	35	40			44	44	39	38	41					45	44	39	37	41	
6- 6-78	48	45	41	40	43				46	46	38	37	41			45	46	40	40	43					46	45	40	39	43	
6-22-78	36	47	42	41	42				32	48	39	37	39			33	43	41	40	39					34	46	41	39	40	
7-12-78	33	41	39	38	38				32	41	36	34	36			31	38	37	36	36					32	40	37	36	36	
7-26-78	37	41	39	38	39				36	41	36	34	37			34	39	37	37	37					35	40	37	36	37	
8- 9-78	35	44	41	39	40				36	41	37	35	37			32	39	37	37	36					34	41	38	37	38	
8-23-78	32	40	39	38	37				33	39	36	35	36			27	36	36	37	34					31	38	37	37	36	
9-21-78	34	39	38	38	37				35	39	36	34	36			28	34	35	36	33					32	37	36	36	35	
10- 3-78	32	39	38	37	36				32	38	35	34	35			27	33	35	36	32					30	36	36	35	34	
10-18-78	31	40	39	39	37				32	39	36	35	36			27	34	37	36	33					30	38	37	37	35	
10-31-78	30	40	39	38	37				32	38	35	34	35			26	33	34	35	32					29	37	36	36	35	
4-25-79	46	45	42	39	43				47	43	36	35	40			44	45	39	38	41					46	44	39	37	41	
5-16-79	44	46	43	41	43				42	45	38	36	40			39	46	39	39	41					41	46	40	39	41	
6- 6-79	40	42	40	39	40				36	41	36	34	37			33	40	37	37	37					36	41	38	37	38	
6-12-79	37	42	40	39	39				36	41	37	35	37			32	40	37	37	36					35	41	38	37	38	
6-26-79	29	41	40	39	37				31	40	36	35	36			28	36	37	38	34					29	39	38	37	36	
7-10-79	31	40	39	39	37				27	38	35	34	34			24	33	35	36	32					28	37	37	36	34	
7-24-79	26	40	40	39	36				28	38	36	35	34			23	33	36	37	32					26	37	37	37	34	

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 2: Furrowed watershed average of furrows and ridges															
	WS 21								WS 24							
	1				2				3				4			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Date																
p <sup>2</sup>																
P																
Site Mean																
WS 25																
P																
7-31-79	29	41	40	40	38	29	38	37	35	35	27	34	37	38	29	38
8-15-79	26	39	40	39	36	28	39	36	35	34	23	32	35	37	26	36
8-29-79	33	41	41	40	39	30	38	37	36	35	26	33	36	37	30	37
9-11-79	29	40	40	39	37	30	37	37	35	35	27	33	35	37	29	37
9-25-79	32	40	40	41	38	28	37	36	35	34	24	32	34	36	28	36
10-17-79	30	39	39	39	37	26	36	35	34	33	23	31	33	35	26	35
4-17-80	33	39	39	39	37	32	35	35	34	34	33	31	33	35	33	35
4-30-80	28	39	40	39	36	28	36	36	35	34	28	31	33	36	28	36
5-14-80	26	38	39	39	36	24	35	36	34	32	22	30	33	35	24	35
5-28-80	24	37	38	39	35	21	34	35	33	31	20	29	33	35	21	34
6-18-80	32	40	40	40	38	30	36	36	35	34	30	33	34	36	31	36
6-30-80	25	38	39	39	35	25	35	35	34	32	24	31	33	36	25	35
7-15-80	22	40	40	40	36	24	35	37	36	33	21	31	34	37	22	35
7-29-80	21	39	40	40	35	23	36	37	36	33	22	31	34	37	22	35
8-19-80	30	39	39	40	37	26	34	35	35	33	25	29	33	36	27	34
9- 3-80	28	39	39	40	36	25	35	35	35	32	24	29	32	36	26	34
9-30-80	26	39	39	40	36	24	35	35	35	32	22	29	33	36	24	34
10-21-80	33	39	39	40	38	32	35	35	35	34	31	29	33	36	32	34
11- 5-80	33	38	39	40	38	32	35	35	35	34	32	29	33	36	33	34

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 3: Nonfurrowed watersheds														Site Mean					
	WS 32				WS 33				WS 35											
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
	Date																			
11-29-67	17	22	26	24	22	18	23	26	27	24	14	22	25	23	21	16	22	26	25	22
3-28-68	18	24	26	25	23	20	24	27	28	25	15	22	26	22	21	18	23	26	25	23
4-18-68	18	24	27	24	23	20	24	27	28	25	15	24	26	23	22	18	24	27	25	23
7- 9-68	17	25	28	26	24	19	26	29	29	26	15	26	28	25	24	17	25	28	27	24
7-20-68	19	24	28	26	24	21	26	28	30	26	15	25	28	25	23	18	25	28	27	24
8-13-68	16	24	28	26	24	17	26	28	29	25	12	26	28	25	23	15	25	28	27	24
8-28-68	20	24	28	27	25	25	25	29	30	27	18	25	28	25	24	21	25	28	27	25
10-23-68	16	24	28	25	23	17	25	27	28	24	12	25	27	24	22	15	24	27	26	23
4-23-69	18	24	28	25	24	21	26	28	30	26	26	24	27	23	25	21	25	28	26	25
5-20-69	17	24	28	25	24	19	25	28	30	25	16	25	27	24	23	17	25	28	26	24
7- 7-69	20	25	29	27	25	21	26	28	30	26	21	26	28	25	25	21	25	28	27	25
8-12-69	16	24	27	25	23	19	25	28	29	25	12	25	28	24	22	16	25	28	26	23
9-10-69	14	24	29	26	23	16	26	29	30	25	11	26	28	25	22	13	25	28	27	24
5-20-70	25	25	28	26	26	24	27	29	27	27	28	27	28	26	27	26	26	28	27	27
6-30-70	16	24	28	28	24	25	26	28	30	27	13	27	29	26	24	18	26	29	28	25
7-27-70	19	25	28	26	24	20	26	29	30	26	14	26	28	25	23	18	26	28	27	25
5- 4-71	25	24	27	25	25	30	31	31	29	30	21	25	27	24	24	25	27	28	26	27
6- 3-71	16	24	28	28	24	25	26	28	30	27	13	27	29	26	24	18	26	29	28	25
6-29-71	19	25	28	26	24	21	26	29	29	26	17	27	28	24	24	19	26	28	26	25
7-21-71	13	24	28	27	23	16	26	28	29	25	11	26	28	24	22	13	25	28	26	23
9- 9-71	19	23	26	25	23	20	25	27	28	25	19	25	27	24	24	19	24	27	25	24

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 3: Nonfurrowed watersheds																				Site Mean
	WS 32					WS 33					WS 35										
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P	
	Date																				
4- 6-72	25	25	27	27	26	23	24	27	27	25	24	23	26	26	25	24	24	26	26	25	
5-16-72	26	26	29	26	27	24	26	28	30	27	26	27	28	25	27	25	25	26	28	27	
6- 1-72	20	25	28	26	25	21	25	28	29	26	20	26	27	24	24	20	25	27	26	25	
6-13-72	18	25	27	26	24	21	26	30	31	27	15	26	27	24	23	18	26	28	27	25	
6-27-72	16	22	25	27	22	22	25	29	30	26	17	26	27	24	23	18	24	27	27	24	
7-10-72	18	25	28	26	24	21	25	29	29	26	15	26	27	25	23	18	25	28	27	24	
7-20-72	18	23	26	24	23	20	25	26	27	24	16	25	27	24	23	18	24	26	25	23	
7-26-72	20	25	27	25	24	21	25	29	29	26	19	26	27	24	24	20	25	28	26	25	
8-16-72	20	26	29	26	25	22	26	28	29	26	18	27	28	25	24	20	26	28	26	25	
8-29-72	19	25	27	25	24	22	26	30	29	27	17	26	27	25	24	19	26	28	26	25	
9-13-72	16	24	26	25	23	19	25	27	28	25	14	26	27	25	23	16	25	27	26	23	
10- 4-72	16	25	28	27	24	17	24	27	25	23	14	19	22	25	20	16	22	26	25	22	
4- 5-73	19	25	29	26	25	21	26	28	30	26	18	26	28	24	24	19	25	28	27	25	
4-26-73	25	27	31	28	28	24	28	31	31	29	25	29	30	27	28	25	28	31	29	28	
5-16-73	20	27	30	28	26	21	28	30	31	28	18	28	30	26	26	20	27	30	28	26	
5-30-73	20	25	28	25	24	21	25	28	28	26	21	26	27	24	25	21	25	28	26	25	
6-13-73	17	25	28	26	24	20	25	28	28	25	17	26	27	24	23	18	25	28	26	24	
6-25-73	18	24	27	26	24	20	25	27	28	25	19	25	27	24	24	19	25	27	26	24	
7- 2-73	17	25	28	25	24	19	26	28	29	25	16	26	28	24	23	17	25	28	26	24	
7-24-73	14	25	28	26	23	17	26	27	29	25	12	26	27	24	22	14	25	27	26	23	
8-14-73	14	23	27	25	22	16	25	28	29	24	11	25	27	24	22	14	25	27	26	23	
8-28-73	15	25	27	26	23	19	26	28	29	25	16	29	31	27	25	17	26	29	27	25	
9- 6-73	19	25	28	26	24	22	26	28	29	26	19	26	28	24	24	20	25	28	27	25	
10- 3-73	19	25	28	27	25	21	26	28	29	26	19	26	28	25	25	19	26	28	27	25	

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana, 1967-1980.

Profile Depth Increment (ft)	Site 3: Nonfurrowed watersheds																Site Mean			
	WS 32								WS 33								WS 35			
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
	Date																			
4-17-74	20	25	28	26	25	22	26	28	29	26	19	26	28	24	24	20	25	28	26	25
5-1-74	20	25	28	26	25	22	26	29	29	27	20	26	28	24	25	21	26	28	26	25
5-23-74	20	25	28	27	25	22	26	28	29	26	20	26	27	25	24	20	26	28	27	25
6-5-74	20	25	28	26	25	21	26	28	29	26	20	26	28	24	24	20	25	28	27	25
6-19-74	15	25	28	26	24	17	25	27	29	24	13	26	28	25	23	15	25	28	27	24
7-9-74	18	25	28	26	24	21	26	28	29	26	17	26	28	25	24	18	26	28	27	25
7-25-74	16	24	29	26	24	17	26	28	29	25	13	26	28	25	23	15	26	28	27	24
8-5-74	14	25	30	27	24	16	27	29	30	26	12	29	28	26	24	14	27	29	28	24
8-21-74	15	25	29	27	24	17	27	30	31	26	11	27	29	25	23	14	26	29	28	24
9-18-74	14	24	27	25	22	17	25	27	28	24	12	25	27	23	22	14	24	27	25	23
10-1-74	13	22	26	24	21	16	24	27	27	24	10	24	26	23	21	13	23	26	25	22
5-27-75	22	23	27	25	24	22	24	26	27	25	22	24	26	23	24	22	23	26	25	24
6-18-75	14	20	25	24	21	21	25	29	29	26	13	21	25	22	20	16	22	27	25	22
7-23-75	11	21	26	26	21	18	24	29	28	25	18	28	28	27	25	16	24	27	27	24
8-12-75	15	23	26	25	22	14	25	29	24	23	15	23	28	26	23	15	23	28	25	23
8-27-75	14	24	25	27	22	15	25	27	27	23	15	26	28	27	24	15	25	27	27	23
9-23-75	11	22	26	25	21	11	23	24	24	20	11	20	23	24	19	11	21	24	24	20
3-17-76	19	23	27	25	23	20	24	26	28	24	18	24	26	23	23	19	23	26	25	23
4-6-76	18	22	27	24	23	19	24	27	28	25	16	23	27	23	22	18	23	27	25	23
4-20-76	19	21	25	25	22	20	24	26	27	24	20	24	26	23	23	20	23	26	25	23
5-6-76	19	22	26	24	23	20	24	26	27	24	20	24	26	22	23	19	23	26	24	23
5-27-76	19	25	28	26	25	19	26	26	27	25	16	24	26	24	23	18	25	27	26	24
6-9-76	16	23	27	24	22	19	25	27	28	24	15	25	27	24	22	16	24	27	25	23
6-28-76	18	24	27	25	24	21	25	27	28	25	19	25	26	23	23	19	24	27	25	24

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Nonfurrowed watersheds																Site Mean			
	WS 32								WS 33											
	1	2	3	4	P <sub>2</sub>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
	Date																			
7-14-76	17	23	27	25	23	19	25	27	27	24	15	25	26	23	22	17	24	26	25	23
8- 4-76	15	23	27	25	22	16	24	27	27	24	13	25	26	23	21	15	24	27	25	22
8-18-76	15	23	26	25	22	17	25	26	27	24	12	25	26	23	21	15	24	26	25	22
8-25-76	16	23	26	26	23	18	24	26	27	24	13	24	27	23	22	16	24	26	25	23
9- 9-76	15	23	26	25	22	18	24	27	27	24	13	24	26	23	21	15	24	26	25	22
9-22-76	16	23	26	24	22	19	24	27	27	24	13	24	26	23	22	16	24	27	25	23
10- 4-76	16	22	26	23	22	17	24	25	26	23	13	24	25	22	21	15	23	25	24	22
10-20-76	17	23	27	24	23	19	25	27	27	24	14	24	26	23	22	17	24	26	25	23
11-16-76	17	23	26	24	22	19	23	26	27	24	15	24	26	22	22	17	23	26	24	23
12-15-76	18	22	26	24 <sup>a</sup>	22	19	24	26	27	24	15	24	26	22	22	17	23	26	24	23
3-23-77	20	23	26	25	24	14	24	27	27	23	19	25	26	23	23	18	24	27	25	23
4-13-77	23	22	27	24	24	20	24	27	28	25	20	26	26	23	24	21	24	27	25	24
5- 3-77	18	23	27	25	23	18	24	27	27	24	16	25	26	23	23	17	24	27	25	23
5-25-77	15	23	27	25	23	17	24	27	28	24	12	24	27	23	22	15	24	27	25	23
6- 7-77	14	23	27	25	22	16	24	27	28	24	12	24	26	23	21	14	24	27	25	22
6-29-77	15	23	26	24	22	18	24	27	27	24	15	25	26	23	22	16	24	26	25	23
7-13-77	15	23	27	26	23	18	24	27	28	25	12	24	27	23	21	15	24	27	26	23
7-27-77	14	23	27	25	22	17	25	28	28	24	12	25	26	24	22	14	24	27	26	23
8-10-77	14	22	27	25	22	16	24	27	27	24	13	24	26	23	21	14	24	27	25	22
9- 7-77	14	23	26	25	22	17	24	26	27	24	12	25	27	23	21	14	24	26	25	22
9-27-77	18	22	26	24	23	20	24	27	27	24	16	24	26	23	22	18	23	26	25	23
10-12-77	19	22	26	24	23	21	24	26	27	24	19	24	25	22	23	20	23	26	24	23
10-26-77	18	22	27	25	23	20	24	26	27	24	18	24	27	24	23	18	24	27	25	23
11- 8-77	18	23	26	26	23	20	25	27	28	25	16	23	25	23	22	18	24	26	26	23

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Nonfurrowed watersheds															
	WS 32				WS 33				WS 35				Site Mean			
	1	2	3	4	P <sub>2</sub>	1	2	3	4	P	1	2	3	4	P	
Date																
4-13-78	22	24	29	27	26	24	27	30	30	28	21	27	30	26	26	26
4-25-78	22	25	29	27	26	23	27	30	31	28	21	27	29	26	26	26
5-10-78	23	26	30	28	26	24	27	30	31	28	22	27	29	26	26	27
5-24-78	22	26	30	28	26	23	27	30	31	28	22	27	29	26	26	27
6-6-78	22	26	30	29	27	25	29	31	31	29	20	27	30	26	26	27
6-22-78	20	27	32	30	27	19	28	30	32	27	16	28	30	27	25	26
7-12-78	18	25	29	27	25	21	27	29	30	26	16	26	28	25	24	25
7-26-78	19	26	29	28	25	24	27	30	30	28	20	28	29	25	25	26
8-9-78	20	25	30	28	26	25	28	31	31	29	18	28	30	26	25	27
8-23-78	18	26	29	28	25	18	28	30	31	26	12	27	29	26	24	25
9-21-78	20	25	29	27	25	22	27	29	30	27	17	27	29	25	24	26
10-3-78	20	25	28	27	25	20	26	29	29	26	15	26	28	24	23	25
10-18-78	18	25	29	28	25	20	27	29	30	26	14	27	29	26	24	25
10-31-78	18	26	29	27	25	20	27	29	30	27	14	27	29	26	24	25
4-25-79	23	26	30	28	27	25	27	30	30	28	26	27	29	26	27	27
5-16-79	22	27	30	27	26	24	28	30	32	28	23	28	30	27	27	27
6-6-79	18	25	30	27	25	21	27	29	30	26	16	27	29	26	24	25
6-12-79	19	26	29	28	25	22	27	30	30	27	17	28	28	26	25	26
6-26-79	13	26	29	28	24	20	27	30	31	27	14	27	29	26	24	25
7-10-79	16	25	29	27	24	21	27	29	30	27	13	26	29	25	23	25
7-24-79	16	26	30	28	25	19	28	30	31	27	12	27	29	26	24	25
7-31-79	19	26	30	29	26	21	28	30	32	28	16	27	29	27	25	26
8-15-79	16	26	29	28	25	22	27	30	30	27	15	28	29	26	24	25
8-29-79	17	26	30	29	25	20	28	31	32	27	12	28	29	27	24	26

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Nonfurrowed watersheds															
	WS 32								WS 33							
					P <sub>2</sub>								P			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Date	WS 32				WS 33				WS 35				Site Mean			
9-11-79	18	26	29	28	25	20	28	30	31	27	13	27	29	27	29	28
9-25-79	17	26	29	28	25	19	28	30	31	27	12	26	29	27	29	29
10-17-79	14	26	30	29	25	18	28	30	31	27	13	28	29	27	30	28
4-17-80	19	26	30	28	26	21	27	29	31	27	18	26	29	26	29	28
4-30-80	17	26	29	28	25	18	28	29	31	27	14	27	29	26	29	28
5-14-80	15	26	30	28	25	17	28	29	31	26	13	27	29	26	29	28
5-28-80	15	26	30	28	24	17	28	31	31	26	13	27	30	27	30	29
6-18-80	18	27	31	31	27	19	28	30	31	27	15	25	30	29	30	30
6-30-80	16	27	31	29	26	17	28	30	31	27	14	27	31	27	31	29
7-15-80	16	29	30	31	27	16	28	30	31	26	12	26	30	26	30	29
7-29-80	14	26	30	28	24	15	28	30	31	26	12	27	29	27	29	28
8-19-80	18	26	30	28	25	18	28	30	31	27	15	27	29	26	30	28
9- 3-80	17	25	30	28	25	18	27	30	31	26	14	27	29	26	30	28
9-30-80	16	26	30	28	25	17	28	30	31	27	13	27	29	26	30	29
10-21-80	24	26	30	28	27	24	28	30	31	28	21	27	29	27	30	28
11- 5-80	24	26	30	28	27	24	28	30	31	28	21	27	30	27	30	28

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrows of furrowed watersheds												Site Mean			
	WS 31						WS 34						WS 36			
	1	2	3	4	P <sup>2</sup>		1	2	3	4	P		1	2	3	4
Date																
11-29-67	17	23	25	27	23		17	18	25	26	22		24	25	23	18
3-28-68	34	31	29	31	31		27	24	25	28	26		27	27	24	19
4-18-68	35	30	28	30	31		27	24	26	27	26		27	26	24	18
7- 9-68	37	36	29	31	33		32	24	27	28	28		30	30	25	19
7-20-68	39	37	29	30	33		31	24	26	28	27		25	29	25	19
8-13-68	33	36	29	30	32		29	25	26	28	27		20	29	24	19
8-28-68	20	22	24	27	23		21	21	27	26	24		24	28	25	19
10-23-68	32	35	28	28	30		26	23	26	27	26		19	26	24	18
4-23-69	37	36	27	30	32		36	30	30	30	31		31	32	24	19
5-20-69	36	37	27	29	32		34	30	30	29	31		34	35	28	20
7- 7-69	38	38	30	30	34		28	26	29	30	28		34	35	29	23
8-12-69	23	33	29	29	29		19	23	26	29	24		17	26	26	21
9-10-69	14	27	28	30	25		14	22	27	31	23		15	24	26	21
5-20-70	41	41	29	30	35		32	30	36	32	33		39	36	29	23
6-30-70	24	39	30	31	31		12	16	28	32	22		22	33	32	26
7-27-70	36	38	31	32	34		13	15	28	31	22		19	26	26	22
5- 4-71	39	41	33	31	36		35	33	31	31	32		36	34	28	22
6- 3-71	24	39	30	31	31		12	16	28	32	22		22	33	32	26
6-29-71	34	40	33	30	34		29	30	31	31	30		28	34	30	22
7-21-71	16	36	32	30	28		24	26	29	30	27		16	26	27	21

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrows of furrowed watersheds																	Site Mean														
	WS 31						WS 34						WS 36																			
	1		2		3		4		P <sup>2</sup>		1		2		3		4		P		1		2		3		4					
	1	2	3	4	P <sup>2</sup>		1	2	3	4	P		1	2	3	4	P			1	2	3	4	P		1	2	3	4	P		
Date																																
9- 9-71	38	37	32	29	34		30	27	28	29	28		34	24	24	20	25		34	30	28	26		34	30	28	26		29			
4- 6-72	38	40	31	31	35		37	41	29	29	34		38	33	29	29	32		37	38	30	30		37	38	30	30		34			
5-16-72	40	43	33	31	37		37	30	29	30	32		40	36	32	23	33		39	36	31	28		39	36	31	28		34			
6- 1-72	39	42	32	30	36		33	29	28	29	30		34	34	31	22	30		35	35	30	27		35	35	30	27		32			
6-13-72	29	40	31	31	33		40	29	29	31	32		25	29	28	26	27		31	33	29	29		31	33	29	29		31			
6-27-72	33	35	29	29	32		26	29	28	30	28		29	31	30	21	28		30	31	29	27		30	31	29	27		29			
7-10-72	28	36	30	31	31		26	28	29	29	28		23	28	29	21	25		26	31	29	27		26	31	29	27		28			
7-20-72	33	36	29	29	32		28	27	25	28	27		26	27	27	20	25		29	30	27	25		29	30	27	25		28			
7-26-72	36	39	30	30	34		31	29	28	30	29		28	28	28	22	26		32	32	29	27		32	32	29	27		30			
8-16-72	32	40	31	31	33		19	28	29	30	26		25	29	29	22	26		25	32	30	28		25	32	30	28		29			
8-29-72	24	35	30	31	30		25	29	29	30	28		20	26	26	26	24		23	30	28	29		23	30	28	29		28			
9-13-72	20	31	30	30	28		21	27	26	29	26		21	25	27	20	23		21	28	27	27		21	28	27	27		26			
10- 4-72	21	27	31	28	27		26	32	29	29	29		19	25	25	19	22		22	28	28	25		22	28	28	25		26			
4- 5-73	31	38	35	31	34		28	29	29	30	29		27	28	28	21	26		28	32	31	27		28	32	31	27		30			
4-26-73	43	42	34	34	38		30	30	30	32	30		37	32	31	23	31		37	35	32	29		37	35	32	29		33			
5-16-73	36	41	32	32	35		29	31	31	33	31		32	33	31	23	30		32	35	31	29		32	35	31	29		32			
5-30-73	38	36	30	30	34		29	29	28	29	29		34	29	28	21	28		34	31	29	27		34	31	29	27		30			
6-13-73	34	36	30	30	32		27	29	29	29	28		30	30	28	21	27		30	32	29	27		30	32	29	27		29			
6-25-73	34	36	30	31	33		28	29	28	31	29		32	32	30	24	29		31	32	29	28		31	32	29	28		30			
7- 2-73	28	35	30	32	31		28	29	28	30	29		29	32	29	25	29		28	32	29	29		28	32	29	29		30			
7-24-73	18	31	30	30	27		22	28	28	30	27		19	27	28	23	25		20	29	29	28		20	29	29	28		26			

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrows of furrowed watersheds																			
	WS 31					WS 34					WS 36			Site Mean						
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
8-14-73	17	31	30	32	28	19	27	28	31	26	18	26	27	21	23	18	28	29	28	26
8-28-73	32	35	32	33	33	28	30	31	32	30	28	30	30	23	28	29	32	31	29	30
9- 6-73	30	34	31	31	32	28	29	28	31	29	30	28	28	22	27	30	30	29	28	29
10- 3-73	31	34	31	32	32	28	29	29	31	29	31	29	28	21	27	30	31	30	28	29
4-17-74	37	37	31	32	34	28	28	29	30	29	34	32	30	22	29	33	32	30	28	31
5- 1-74	37	38	32	32	34	28	29	30	31	30	34	33	31	23	30	33	33	31	28	31
5-23-74	36	37	32	32	34	28	29	30	31	29	33	33	30	22	29	32	33	30	28	31
6- 5-74	31	36	30	31	32	28	29	27	30	28	30	32	30	22	29	30	32	29	28	30
6-19-74	18	30	26	28	25	20	28	29	30	27	20	24	25	25	24	19	27	27	28	25
7- 9-74	29	37	31	31	32	24	28	30	31	28	24	27	27	23	25	26	31	29	28	28
7-25-74	19	32	31	31	28	20	28	29	31	27	21	27	28	22	25	20	29	29	28	26
8- 5-74	17	30	30	32	27	18	28	30	31	27	19	26	28	22	24	18	28	29	28	26
8-21-74	20	33	32	32	29	19	29	30	31	27	19	26	27	21	23	19	29	30	28	27
9-18-74	17	27	27	30	25	17	26	27	29	25	19	24	25	20	22	17	26	26	26	24
10- 1-74	16	26	26	29	24	17	24	27	28	24	18	24	24	19	21	17	25	26	25	23
5-27-75	36	37	29	34	34	32	29	30	33	31	34	32	29	23	29	34	33	29	30	31
6-18-75	22	32	28	31	28	22	26	25	30	26	22	33	29	29	28	22	30	27	30	27
7-23-75	7	19	29	28	21	19	35	35	32	30	13	25	27	22	22	13	26	30	28	24
8-12-75	12	29	31	31	26	14	26	30	32	26	15	25	30	32	26	13	27	31	32	26
8-27-75	13	30	29	29	25	14	25	28	30	24	13	25	28	29	24	13	27	28	29	24
9-23-75	6	23	29	29	22	12	21	25	28	22	9	23	28	28	22	9	23	27	28	22

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrows of furrowed watersheds																				
	WS 31					WS 34					WS 36						Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P	
Date																					
3-17-76	36	31	27	28	31	25	27	28	26	26	30	26	26	20	26	31	28	27	25	28	
4- 6-76	35	34	28	29	31	33	26	28	28	29	29	27	27	20	26	32	29	28	26	29	
4-20-76	36	33	29	28	31	26	27	27	28	27	31	27	26	20	26	31	29	27	26	28	
5- 6-76	31	33	28	28	30	25	26	27	28	26	31	29	26	20	26	29	30	27	25	28	
5-27-76	26	32	28	29	29	25	28	28	29	27	29	30	30	21	27	26	30	29	26	28	
6- 9-76	25	32	28	29	28	24	27	28	29	27	22	28	27	21	24	23	29	28	26	26	
6-28-76	27	29	32	29	29	27	28	30	29	28	30	29	27	21	27	28	29	30	26	28	
7-14-76	20	31	28	29	27	24	27	27	28	26	22	27	28	22	25	22	28	28	26	26	
8- 4-76	19	28	28	29	26	15	25	30	29	25	19	24	26	21	22	18	26	28	26	24	
8-18-76	17	27	26	28	25	18	26	27	28	25	18	24	25	21	22	18	26	26	26	24	
8-25-76	16	26	27	27	24	17	25	28	29	25	21	23	26	20	22	18	25	27	25	24	
9- 9-76	16	26	26	28	24	17	25	27	28	24	19	24	24	20	22	17	25	26	25	23	
9-22-76	17	26	27	29	24	17	26	27	29	25	19	23	24	20	21	18	25	26	26	24	
10- 4-76	21	29	26	27	26	16	26	27	28	24	17	24	24	19	21	18	26	26	25	24	
10-20-76	23	29	27	28	27	19	25	27	28	25	21	23	25	20	22	21	25	26	25	25	
11-16-76	24	28	28	28	27	20	25	26	27	25	22	24	25	19	22	22	26	26	25	25	
12-15-76	24	27	28	28	27	21	26	27	28	25	21	23	25	20	22	22	25	26	25	25	
3-23-77	36	30	27	28	30	28	28	27	29	28	29	25	25	20	25	31	27	26	25	28	
4-13-77	36	32	28	29	31	32	27	28	28	28	30	32	27	23	28	32	30	27	27	29	
5- 3-77	30	31	28	28	29	27	27	27	28	27	29	31	27	22	27	29	30	27	26	28	
5-25-77	7	26	30	29	23	16	25	27	28	24	5	24	25	24	20	9	25	27	27	22	
6- 7-77	5	23	29	28	21	12	23	27	28	23	4	24	26	22	19	7	23	28	26	21	

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrows of furrowed watersheds										Site Mean									
	WS 31					WS 34					WS 36					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
6-29-77	13	26	30	28	24	21	24	27	28	25	9	27	26	21	21	14	26	28	26	23
7-13-77	19	28	28	29	26	18	25	29	28	25	17	25	27	21	22	18	26	28	26	24
7-27-77	12	26	28	29	24	17	26	28	29	25	18	25	27	20	22	16	25	28	26	24
8-10-77	21	27	27	29	26	20	26	28	28	25	18	24	26	20	22	20	26	27	26	24
9- 7-77	19	28	27	28	25	19	27	30	28	26	17	24	26	20	21	18	26	27	25	24
9-27-77	26	29	27	28	28	24	26	27	27	26	25	24	25	20	24	25	27	26	25	26
10-12-77	28	29	29	28	28	28	26	29	26	27	29	28	26	21	26	28	28	28	25	27
10-26-77	27	31	28	29	29	26	28	30	28	28	31	31	29	23	29	28	30	29	27	28
11- 8-77	27	31	28	28	28	27	26	29	28	28	22	29	27	22	25	25	29	28	26	27
4-13-78	32	33	32	30	32	32	31	35	34	33	32	28	28	25	28	32	31	31	30	31
4-25-78	36	34	32	32	33	31	31	35	34	33	33	33	30	25	30	34	33	32	31	32
5-10-78	38	33	32	32	34	30	31	35	34	32	33	34	31	27	31	34	33	33	31	32
5-24-78	34	34	31	31	32	31	32	37	34	34	35	35	32	27	32	33	34	33	31	33
6- 6-78	30	35	32	33	32	33	32	35	34	34	30	33	32	30	31	31	33	33	32	32
6-22-78	12	30	35	34	28	23	29	36	35	31	6	29	33	28	24	14	29	34	32	27
7-12-78	23	32	30	31	29	28	31	32	32	31	22	27	31	27	27	24	30	31	30	29
7-26-78	25	33	31	32	30	28	32	32	32	31	26	27	31	26	27	26	30	31	30	30
8- 9-78	23	33	31	32	30	30	31	32	32	31	23	29	32	26	27	25	31	32	30	29
8-23-78	22	32	31	32	29	28	32	32	32	31	23	30	30	25	27	24	31	31	29	29
9-21-78	25	30	31	32	29	28	31	31	32	30	24	28	30	25	26	26	30	31	29	29
10- 3-78	22	31	31	31	29	26	31	30	31	29	23	27	29	24	26	24	29	30	28	28
10-18-78	22	32	31	31	29	26	30	31	31	29	23	27	29	24	26	24	30	30	29	28
10-31-78	22	31	31	31	29	23	28	31	30	28	22	28	30	23	26	22	29	30	28	27

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrows of furrowed watersheds														Site Mean					
	WS 31					WS 34					WS 36									
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
4-25-79	38	33	32	33	34	32	33	33	32	33	34	34	32	27	32	35	33	32	30	33
5-16-79	36	34	33	32	34	34	31	31	33	32	33	33	31	28	32	34	33	32	31	32
6- 6-79	24	33	32	31	30	29	31	32	32	31	22	30	32	26	27	25	31	32	30	29
6-12-79	25	33	31	31	30	29	31	33	32	31	24	30	31	27	28	26	31	31	30	30
6-26-79	22	33	31	32	29	28	33	33	32	31	21	28	31	25	26	24	31	32	30	29
7-10-79	20	32	30	31	28	25	31	31	31	29	17	27	29	24	24	21	30	30	29	27
7-24-79	21	32	31	31	29	24	33	32	33	30	15	26	26	24	23	20	30	29	29	27
7-31-79	24	32	31	32	30	27	34	32	32	31	23	28	30	24	26	25	31	31	29	29
8-15-79	21	32	31	32	29	24	30	31	32	29	22	27	29	23	25	22	30	30	29	28
8-29-79	23	31	31	31	29	25	33	32	33	31	23	29	28	26	27	24	31	30	30	29
9-11-79	24	31	30	31	29	27	31	31	32	30	25	27	29	24	26	25	30	30	29	28
9-25-79	23	31	31	32	29	25	30	32	32	30	22	28	29	24	26	23	30	31	30	28
10-17-79	19	31	31	31	28	15	28	33	32	27	20	27	29	23	25	18	29	31	29	26
4-17-80	32	29	31	33	31	21	28	32	35	29	24	28	30	24	26	26	28	31	31	29
4-30-80	24	29	31	32	29	25	29	35	36	31	19	28	30	23	25	23	29	32	30	28
5-14-80	20	30	31	33	28	21	29	31	32	28	16	27	30	23	24	19	29	31	29	27
5-28-80	19	29	31	34	28	19	29	33	32	28	17	28	30	27	25	18	28	31	31	27
6-18-80	23	30	31	34	29	27	30	37	37	33	19	28	30	23	25	23	29	33	31	29
6-30-80	20	30	31	33	29	22	30	34	35	30	18	28	31	25	26	20	29	32	31	28
7-15-80	18	28	30	33	27	24	37	35	35	33	16	27	29	23	24	19	31	31	30	28



Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Ridges of furrowed watersheds															
	WS 31				WS 34				WS 36				Site Mean			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Date	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
11-29-67	17	20	23	25	21	18	17	24	25	21	18	21	23	24	21	21
3-28-68	20	22	24	27	23	21	19	26	26	23	21	21	24	24	22	23
4-18-68	20	22	24	26	23	21	19	26	26	23	20	22	24	24	22	23
7- 9-68	22	22	25	28	24	25	20	27	27	25	14	23	25	25	22	24
7-20-68	16	22	24	27	22	18	20	26	27	23	8	23	24	25	20	21
8-13-68	13	23	24	28	22	14	20	27	27	22	9	23	25	25	20	21
8-28-68	20	22	24	27	23	21	19	25	26	23	14	21	25	25	21	22
10-23-68	14	22	24	27	22	13	19	26	26	21	16	22	24	24	21	21
4-23-69	31	30	27	30	29	32	33	30	28	31	27	32	28	23	27	29
5-20-69	24	30	28	30	28	27	31	29	28	29	18	31	27	26	25	27
7- 7-69	30	30	29	31	30	22	23	28	30	26	22	27	27	26	25	27
8-12-69	14	26	26	28	23	10	19	27	29	21	8	24	26	25	21	22
9-10-69	11	23	26	29	22	12	19	28	29	22	9	23	26	27	21	22
5-20-70	32	30	29	31	31	39	34	32	30	34	38	28	27	26	30	31
6-30-70	14	25	28	30	24	14	28	29	26	24	11	25	28	29	23	24
7-27-70	16	26	30	32	26	14	22	30	27	23	11	24	26	27	22	24
5- 4-71	32	28	27	29	29	35	31	32	30	32	31	33	27	22	28	30
6- 3-71	14	25	28	30	24	14	28	29	26	24	11	25	28	29	23	24
6-29-71	17	27	28	30	25	26	30	32	30	29	15	29	28	26	24	26
7-21-71	20	23	26	29	24	11	23	28	28	23	8	24	25	26	21	23
9- 9-71	26	23	25	28	26	25	25	31	31	28	23	23	24	25	24	26

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Ridges of furrowed watersheds										Site Mean									
	WS 31					WS 34					WS 36									
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
4- 6-72	34	26	24	24	27	38	33	32	32	34	33	33	28	28	30	35	30	28	28	30
5-16-72	33	28	26	28	29	40	38	36	34	37	34	37	28	26	31	36	34	30	29	32
6- 1-72	24	26	26	28	26	31	34	35	31	33	22	34	27	25	27	26	31	29	28	29
6-13-72	16	25	25	29	24	32	31	33	31	32	14	29	26	25	23	20	28	28	28	26
6-27-72	21	23	22	25	23	19	27	31	30	27	15	28	26	24	23	18	26	26	27	24
7-10-72	15	25	25	28	23	14	25	30	29	24	12	26	26	25	22	14	25	27	27	23
7-20-72	19	24	25	27	24	18	26	29	28	25	14	25	25	24	22	17	25	26	26	24
7-26-72	21	25	26	28	25	25	28	30	29	28	18	28	26	26	24	21	27	27	28	26
8-16-72	17	25	26	29	25	28	28	28	31	29	14	27	26	26	23	20	27	27	29	26
8-29-72	17	25	26	28	24	17	24	30	30	25	14	16	24	24	19	16	22	26	27	23
9-13-72	14	24	25	28	23	13	21	29	29	23	11	24	25	25	21	13	23	26	27	22
10- 4-72	13	21	22	22	20	17	26	31	29	26	16	24	25	21	21	15	24	26	24	22
4- 5-73	19	24	26	29	25	18	25	30	27	25	19	26	27	26	24	19	25	27	27	25
4-26-73	30	27	28	31	29	28	24	31	29	28	28	29	29	29	28	29	26	29	30	28
5-16-73	20	26	28	30	26	17	25	32	31	26	16	28	29	28	25	17	26	29	30	26
5-30-73	27	24	25	28	26	28	26	29	29	28	32	28	26	26	28	29	26	27	27	27
6-13-73	19	24	26	28	24	20	25	30	30	26	19	27	26	26	25	19	26	27	28	25
6-25-73	27	24	28	31	28	29	27	28	29	28	25	27	26	27	26	27	26	27	29	27
7- 2-73	22	26	29	32	27	24	26	30	30	27	22	28	27	27	26	23	27	28	29	27
7-24-73	12	25	28	32	24	11	23	28	29	23	10	25	26	27	22	11	25	27	29	23
8-14-73	11	22	25	28	22	11	21	28	28	22	9	24	25	26	21	10	22	26	27	21
8-28-73	16	24	25	28	23	18	26	32	31	27	15	28	28	29	25	16	26	28	29	25
9- 6-73	18	23	25	28	24	24	27	29	29	27	19	25	26	27	24	20	25	27	28	25
10- 3-73	19	24	26	29	24	22	27	29	30	27	17	26	27	27	24	19	26	27	28	25

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Ridges of furrowed watersheds																			
	WS 31					WS 34					WS 36					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
4-17-74	23	24	26	28	25	29	24	30	29	28	28	27	27	27	27	27	25	27	28	27
5- 1-74	24	24	26	29	26	28	24	30	30	28	28	27	28	27	27	26	25	28	28	27
5-23-74	22	25	28	29	26	24	28	30	30	28	23	27	28	27	26	23	26	28	29	27
6- 5-74	18	25	26	29	24	21	26	28	29	26	19	27	27	23	24	19	26	27	27	25
6-19-74	13	24	24	27	22	12	21	29	28	22	12	25	27	27	23	12	23	26	27	22
7- 9-74	16	24	24	28	23	18	24	29	29	25	24	27	28	24	26	19	25	27	27	25
7-25-74	11	23	26	29	22	11	21	29	29	23	11	26	26	27	22	11	23	27	28	22
8- 5-74	12	24	27	29	23	11	22	29	29	22	9	25	26	27	22	10	23	27	28	22
8-21-74	12	23	27	30	23	11	21	29	28	22	9	25	26	27	22	11	23	27	29	22
9-18-74	12	22	25	27	21	11	20	27	26	21	10	23	24	25	20	11	22	25	26	21
10- 1-74	10	21	24	26	20	10	19	26	27	20	8	22	24	24	19	9	21	24	26	20
5-27-75	25	22	24	27	24	38	34	29	31	33	32	32	25	25	28	32	29	26	27	29
6-18-75	17	24	23	27	23	19	23	25	26	23	18	25	25	28	24	18	24	24	27	23
7-23-75	12	22	21	25	20	17	31	34	33	29	7	26	25	25	21	12	26	27	28	23
8-12-75	14	23	25	25	22	13	23	29	32	24	13	23	26	27	22	13	23	26	28	22
8-27-75	13	26	28	28	24	13	24	26	29	23	13	24	27	29	23	13	24	27	29	23
9-23-75	8	21	26	27	21	13	21	23	24	20	9	22	26	27	21	10	21	25	26	21
3-17-76	22	22	24	26	24	34	24	27	25	27	27	24	25	25	25	27	23	25	25	25
4- 6-76	21	22	24	27	23	26	24	27	26	26	24	24	25	24	25	24	23	25	26	25
4-20-76	23	23	24	26	24	28	24	28	26	26	29	26	26	25	27	27	24	26	26	26
5- 6-76	22	22	24	25	23	27	24	27	25	26	27	25	25	24	25	25	24	25	25	25
5-27-76	17	23	24	26	22	19	23	27	27	24	15	25	25	27	23	17	24	25	27	23
6- 9-76	17	22	24	26	22	13	22	28	27	22	12	25	25	25	22	14	23	26	26	22
6-28-76	20	23	24	26	23	24	23	28	28	26	25	26	26	25	25	23	24	26	26	25

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Ridges of furrowed watersheds																			
	WS 31					WS 34					WS 36					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
7-14-76	15	22	25	27	22	14	22	27	27	22	12	25	26	24	22	14	23	26	26	22
8- 4-76	12	23	24	26	21	12	19	27	28	21	10	23	24	23	20	11	22	25	26	21
8-18-76	13	22	24	27	21	11	19	26	26	21	10	22	24	24	20	11	21	25	26	21
8-25-76	14	23	24	27	22	13	19	26	26	21	12	23	24	24	20	13	21	25	26	21
9- 9-76	14	22	24	26	22	12	18	27	26	21	13	22	23	24	20	13	21	25	25	21
9-22-76	14	22	24	26	22	13	18	26	26	21	11	22	24	24	20	13	21	25	25	21
10- 4-76	14	21	24	25	21	13	19	25	26	21	12	22	23	23	20	13	20	24	24	20
10-20-76	14	21	24	26	21	15	20	26	27	22	13	22	23	24	20	14	21	24	26	21
11-16-76	15	22	24	26	22	15	19	26	26	21	14	22	23	23	21	14	21	24	25	21
12-15-76	16	22	24	26	22	15	19	25	25	21	18	22	24	23	22	16	21	24	25	21
3-23-77	19	23	24	27	23	29	23	26	26	26	24	23	25	24	24	24	23	25	25	24
4-13-77	23	22	24	27	24	38	26	27	26	29	32	27	27	26	28	31	25	26	26	27
5- 3-77	19	22	25	27	23	28	27	28	26	27	17	26	26	25	24	21	25	26	26	25
5-25-77	13	22	24	27	21	13	25	27	26	23	10	24	26	25	21	12	23	26	26	22
6- 7-77	11	22	24	27	21	11	23	27	26	22	9	23	25	25	20	10	23	25	26	21
6-29-77	16	22	24	27	22	20	23	27	25	24	13	23	25	25	21	16	23	25	26	22
7-13-77	16	22	24	27	22	11	22	28	28	22	10	23	25	25	21	12	22	26	26	22
7-27-77	12	22	25	27	21	11	21	27	28	22	9	23	24	25	20	10	22	25	27	21
8-10-77	13	22	24	27	21	12	22	27	26	22	10	22	24	25	20	12	22	25	26	21
9- 7-77	11	22	24	27	21	10	21	27	27	21	8	22	24	24	20	10	22	25	26	21
9-27-77	18	22	24	26	22	18	20	26	27	23	15	23	25	25	22	17	22	25	26	22
10-12-77	24	21	23	26	24	37	24	26	28	29	29	24	23	23	25	30	23	24	26	26
10-26-77	24	22	25	27	24	34	26	28	29	29	26	26	26	26	26	28	25	26	27	26
11- 8-77	22	22	24	26	24	30	25	27	26	27	21	24	24	24	23	24	24	25	25	25

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Ridges of furrowed watersheds																			
	WS 31					WS 34					WS 36					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
4-13-78	27	24	26	29	27	40	30	31	30	33	34	32	30	28	31	34	29	29	29	30
4-25-78	27	26	27	30	27	38	30	31	30	32	30	28	28	28	29	32	28	29	29	29
5-10-78	29	25	27	29	28	42	30	31	31	33	34	31	28	28	30	35	29	29	29	30
5-24-78	27	25	27	29	27	39	31	32	30	33	32	32	28	28	30	32	30	29	29	30
6- 6-78	25	26	28	30	27	35	32	32	31	32	27	32	28	28	29	29	30	29	30	29
6-22-78	16	26	28	32	25	21	29	31	33	29	14	31	30	29	26	17	29	30	31	27
7-12-78	16	25	27	30	24	16	28	31	29	26	13	27	27	28	24	15	27	28	29	25
7-26-78	21	25	27	29	25	22	28	31	30	28	17	27	28	28	25	20	27	29	29	26
8- 9-78	18	25	27	30	25	19	29	31	30	27	14	28	29	29	25	17	27	29	29	25
8-23-78	16	25	27	30	25	14	26	31	29	25	10	26	27	28	23	13	26	28	29	24
9-21-78	19	25	27	29	25	19	27	30	30	26	15	26	27	27	24	18	26	28	28	25
10- 3-78	18	25	26	28	24	15	25	29	28	24	12	25	26	27	22	15	25	27	28	24
10-18-78	16	25	27	28	24	13	25	30	30	24	11	26	27	27	23	13	25	28	28	24
10-31-78	16	25	27	29	24	17	27	32	31	27	11	26	27	28	23	15	26	29	29	25
4-25-79	31	26	27	30	28	42	32	32	32	34	33	33	29	28	31	35	30	29	30	31
5-16-79	28	26	28	30	28	37	31	34	32	34	27	34	29	29	29	31	30	30	30	30
6- 6-79	19	25	27	29	25	19	30	31	31	28	20	30	28	28	26	19	28	29	29	26
6-12-79	21	25	27	29	25	19	30	32	31	28	15	30	28	28	25	18	28	29	29	26
6-26-79	16	25	27	29	24	13	28	32	30	26	11	27	28	29	24	13	27	29	29	25
7-10-79	14	25	27	29	24	12	24	31	29	24	10	25	27	27	22	12	25	28	28	23
7-24-79	19	26	28	31	26	12	24	31	29	24	13	26	29	31	25	15	25	29	30	25
7-31-79	20	26	27	30	26	16	26	31	29	26	15	26	28	29	25	17	26	29	29	25
8-15-79	15	25	28	30	24	14	25	31	30	25	11	25	27	28	23	13	25	28	29	24
8-29-79	14	25	27	29	24	12	24	31	31	25	10	26	29	29	23	12	25	29	29	24

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Ridges of furrowed watersheds															
	WS 31				WS 34				WS 36				Site Mean			
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	
Date																
9-11-79	18	25	27	29	25	13	25	31	30	25	11	24	27	27	22	24
9-25-79	14	26	28	30	25	11	24	30	30	24	12	26	28	28	23	24
10-17-79	14	26	28	30	24	13	23	30	29	24	12	25	28	28	23	24
4-17-80	22	25	27	28	25	20	25	32	29	26	19	25	28	28	25	25
4-30-80	17	25	28	30	25	13	24	30	30	24	10	25	28	28	23	24
5-14-80	14	25	28	30	24	12	23	30	30	24	9	25	28	28	23	24
5-28-80	13	25	28	30	24	12	23	30	31	24	10	26	29	29	23	24
6-18-80	17	26	28	30	25	15	26	31	31	26	10	25	28	28	23	24
6-30-80	14	26	28	31	25	13	25	30	31	25	10	27	29	29	24	24
7-15-80	12	25	27	30	24	15	30	34	31	27	8	24	27	28	22	24
7-29-80	14	25	28	30	24	11	23	30	31	24	8	25	27	28	22	23
8-19-80	16	26	28	31	25	17	25	30	30	25	14	24	27	28	23	24
9- 3-80	16	25	27	30	25	15	27	30	31	26	11	25	28	28	23	24
9-30-80	14	26	27	31	24	12	24	30	31	24	9	25	28	28	23	24
10-21-80	23	26	27	31	27	21	26	30	31	27	23	25	28	29	26	26
11- 5-80	22	26	27	30	26	21	26	30	31	27	22	25	28	28	26	26

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrowed watershed average of furrows and ridges																			
	WS 31					WS 34					WS 36					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
11-29-67	17	21	24	26	22	18	18	24	26	21	21	23	23	21	22	19	21	24	24	22
3-28-68	27	26	27	29	27	24	22	26	27	24	24	24	24	21	23	25	24	25	26	25
4-18-68	28	26	26	28	27	24	22	26	26	24	24	24	24	21	23	25	24	25	25	25
7- 9-68	30	29	27	29	29	29	22	27	28	26	22	26	25	22	24	27	26	26	26	26
7-20-68	27	29	26	28	28	25	22	26	27	25	16	26	24	22	22	23	26	26	26	25
8-13-68	23	29	26	29	27	22	22	26	27	24	15	26	24	22	22	20	26	26	26	24
8-28-68	20	22	24	27	23	21	20	26	26	23	19	25	25	22	23	20	22	25	25	23
10-23-68	23	28	26	27	26	19	21	26	27	23	17	24	24	21	22	20	25	25	25	24
4-23-69	34	33	27	30	31	34	31	30	29	31	29	32	26	21	27	32	32	28	26	29
5-20-69	30	33	27	29	30	31	31	29	28	30	26	33	27	23	27	29	32	28	27	29
7- 7-69	34	34	29	30	32	25	24	28	30	27	28	31	28	25	28	29	30	28	28	29
8-12-69	19	29	28	28	26	15	21	27	29	23	12	25	26	23	22	15	25	27	27	23
9-10-69	13	25	27	30	23	13	20	27	30	23	12	24	26	24	21	13	23	27	28	22
5-20-70	36	36	29	30	33	36	32	34	31	33	38	32	28	24	31	37	33	30	29	32
6-30-70	19	32	29	31	28	13	22	29	29	23	17	29	30	28	26	16	28	29	29	25
7-27-70	26	32	30	32	30	14	19	29	29	23	15	25	26	24	23	18	25	28	28	25
5- 4-71	35	35	30	30	32	35	32	31	30	32	33	33	27	22	29	35	33	30	27	31
6- 3-71	19	32	29	31	28	13	22	29	29	23	17	29	30	28	26	16	28	29	29	25
6-29-71	26	34	30	30	30	27	30	32	30	30	21	32	29	24	26	25	32	30	28	29
7-21-71	18	29	29	30	26	17	25	29	29	25	12	25	26	24	22	16	26	28	27	24
9- 9-71	32	30	28	29	30	27	26	30	30	28	28	24	24	22	25	29	27	27	27	27

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrowed watershed average of furrows and ridges																			
	WS 31					WS 34					WS 36					Site Mean				
	1	2	3	4	p <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
4- 6-72	36	33	27	27	31	37	37	31	31	34	35	33	28	28	31	36	34	29	29	32
5-16-72	37	35	30	30	33	38	34	32	32	34	37	36	30	24	32	37	35	31	29	33
6- 1-72	32	34	29	29	31	32	32	31	30	31	28	34	29	23	29	31	33	30	28	30
6-13-72	23	32	28	30	28	36	30	31	31	32	19	29	27	26	25	26	30	29	29	28
6-27-72	27	29	26	27	27	23	28	30	30	28	22	29	28	23	25	24	29	28	27	27
7-10-72	22	30	28	29	27	20	26	29	29	26	17	27	27	23	24	20	28	28	27	26
7-20-72	26	30	27	28	28	23	27	27	28	26	20	26	26	22	23	23	28	27	26	26
7-26-72	29	32	28	29	29	28	28	29	30	29	23	28	27	24	25	26	29	28	27	28
8-16-72	25	32	29	30	29	24	28	29	30	28	20	28	28	24	25	23	29	28	28	27
8-29-72	20	30	28	29	27	21	27	29	30	27	17	21	25	25	22	19	26	27	28	25
9-13-72	17	28	27	29	25	17	24	28	29	24	16	25	26	23	22	17	26	27	27	24
10- 4-72	17	24	27	25	23	21	29	30	29	27	18	24	25	20	22	19	26	27	25	24
4- 5-73	25	31	30	30	29	23	27	29	29	27	23	27	27	24	25	24	28	29	27	27
4-26-73	37	34	31	32	33	29	27	31	30	29	32	30	30	26	30	33	31	30	29	31
5-16-73	28	33	30	31	31	23	28	31	32	29	24	30	30	25	27	25	31	30	29	29
5-30-73	33	30	28	29	30	28	28	29	29	28	33	29	27	23	28	31	29	28	27	29
6-13-73	26	30	28	29	28	24	27	29	30	27	25	29	27	23	26	25	29	28	27	27
6-25-73	31	30	29	31	30	28	28	28	30	28	29	29	28	25	28	29	29	28	29	29
7- 2-73	25	31	30	32	29	26	28	29	30	28	26	30	28	26	27	26	29	29	29	28
7-24-73	15	28	29	31	26	17	26	28	29	25	14	26	27	25	23	15	27	28	28	25
8-14-73	14	27	28	30	25	15	24	28	30	24	13	25	26	24	22	14	25	27	28	24
8-28-73	24	29	29	31	28	23	28	32	31	28	22	29	29	26	27	23	29	30	29	28
9- 6-73	24	29	28	30	28	26	28	29	30	28	24	26	27	24	25	25	28	28	28	27
10- 3-73	25	29	29	30	28	25	28	29	30	28	24	27	28	24	26	25	28	28	28	27

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrowed watershed average of furrows and ridges																			
	WS 31										WS 34									
	WS 36										WS 36									
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
4-17-74	30	30	28	30	29	28	26	29	29	28	31	29	28	24	28	30	28	29	28	29
5- 1-74	30	31	29	30	30	28	27	30	31	29	31	30	29	25	29	30	29	29	28	29
5-23-74	29	31	30	30	30	26	28	30	31	29	28	30	29	24	28	27	30	29	28	29
6- 5-74	25	30	28	30	28	24	27	28	30	27	25	29	29	22	26	24	29	28	27	27
6-19-74	16	27	25	27	24	16	25	29	29	25	16	25	26	26	23	16	25	26	27	24
7- 9-74	22	30	28	30	27	21	26	30	30	27	24	27	27	24	26	22	28	28	28	27
7-25-74	15	28	28	30	25	15	24	29	30	25	16	26	27	24	23	15	26	28	28	24
8- 5-74	14	27	29	30	25	14	25	29	30	25	14	26	27	24	23	14	26	28	28	24
8-21-74	16	28	29	31	26	15	25	30	30	25	14	25	27	24	22	15	26	28	28	24
9-18-74	14	25	26	28	23	14	23	27	28	23	14	24	25	22	21	14	24	26	26	22
10- 1-74	13	24	25	27	22	13	22	26	27	22	13	23	24	21	20	13	23	25	25	22
5-27-75	31	30	27	31	29	35	31	29	32	32	33	32	27	24	29	33	31	28	29	30
6-18-75	20	28	26	29	26	20	24	25	28	24	20	29	27	28	26	20	27	26	28	25
7-23-75	10	21	25	26	20	18	33	35	33	29	10	25	26	24	21	12	26	28	28	24
8-12-75	13	26	28	28	24	13	25	29	32	25	14	24	28	29	24	13	25	28	30	24
8-27-75	13	28	29	29	25	13	24	27	29	23	13	24	27	29	23	13	25	28	29	24
9-23-75	7	22	28	28	21	13	21	24	26	21	9	23	27	27	21	10	22	26	27	21
3-17-76	29	26	26	27	27	29	25	27	26	27	28	25	25	22	25	29	26	26	25	26
4- 6-76	28	28	26	28	27	30	25	27	27	27	27	25	26	22	25	28	26	27	26	27
4-20-76	29	28	26	27	28	27	26	27	27	27	30	27	26	23	26	29	27	27	26	27
5- 6-76	27	28	26	27	27	26	25	27	26	26	29	27	25	22	26	27	27	26	25	26
5-27-76	21	27	26	27	25	22	25	28	28	26	22	28	27	24	25	22	27	27	26	25
6- 9-76	21	27	26	27	25	18	24	28	28	24	17	26	26	23	23	18	26	27	26	24



Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrowed watershed average of furrows and ridges															
	WS 31								WS 34							
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	Site Mean
Date																
4-13-78	29	29	29	30	29	36	31	33	32	33	33	30	29	27	29	33
4-25-78	32	30	30	31	30	35	30	33	32	32	32	31	29	27	30	33
5-10-78	33	29	30	30	31	36	31	33	32	33	34	33	30	28	31	34
5-24-78	30	29	29	30	30	35	32	34	32	33	33	34	30	28	31	33
6- 6-78	27	31	30	31	30	34	32	33	32	33	28	32	30	29	30	30
6-22-78	14	28	31	33	27	22	29	33	34	30	10	30	31	28	25	16
7-12-78	20	28	29	30	27	22	30	31	31	28	17	27	29	27	25	20
7-26-78	23	29	29	30	28	25	30	32	31	29	22	27	30	27	26	23
8- 9-78	20	29	29	31	27	24	30	31	31	29	18	28	30	27	26	21
8-23-78	19	29	29	31	27	21	29	31	30	28	16	28	29	26	25	19
9-21-78	22	28	29	30	27	23	29	30	31	28	19	27	28	26	25	22
10- 3-78	20	28	28	29	26	20	28	30	29	27	17	26	27	25	24	19
10-18-78	19	28	29	30	26	19	27	30	30	27	17	27	28	25	24	18
10-31-78	19	28	29	30	26	20	28	32	30	27	16	27	29	25	24	18
4-25-79	34	29	29	31	31	37	32	33	32	33	33	34	30	27	31	35
5-16-79	32	30	30	31	31	35	31	32	32	33	30	34	30	29	31	32
6- 6-79	21	29	29	30	27	24	31	31	31	29	21	30	30	27	27	22
6-12-79	23	29	29	30	28	24	31	32	32	30	19	30	29	28	27	22
6-26-79	19	29	29	31	27	20	30	32	31	28	16	28	30	27	25	18
7-10-79	17	28	28	30	26	19	27	31	30	27	13	26	28	26	23	16
7-24-79	20	29	30	31	27	18	28	31	31	27	14	26	27	27	24	17
7-31-79	22	29	29	31	28	22	30	32	31	28	19	27	29	26	25	21
8-15-79	18	28	29	31	27	19	27	31	31	27	16	26	28	25	24	18

Table 4. Soil water content (volumetric percent) of the top four 1-ft soil profile increments - watershed summaries, Ekalaka, Montana 1967-1980.

Profile Depth Increment (ft)	Site 3: Furrowed watershed average of furrows and ridges																			
	WS 31					WS 34					WS 36					Site Mean				
	1	2	3	4	P <sup>2</sup>	1	2	3	4	P	1	2	3	4	P	1	2	3	4	P
Date																				
8-29-79	19	28	29	30	26	19	29	32	32	28	17	27	28	27	25	18	28	30	30	26
9-11-79	21	28	29	30	27	20	28	31	31	27	18	26	28	25	24	20	27	29	29	26
9-25-79	19	29	29	31	27	18	27	31	31	27	17	27	28	26	25	18	28	30	29	26
10-17-79	17	28	29	30	26	14	26	31	30	25	16	26	28	26	24	15	27	30	29	25
4-17-80	27	27	29	30	28	21	26	32	32	28	21	26	29	26	26	23	26	30	29	27
4-30-80	21	27	29	31	27	19	26	32	33	28	15	26	29	26	24	18	26	30	30	26
5-14-80	17	27	29	31	26	17	26	30	31	26	12	26	29	26	23	15	26	30	29	25
5-28-80	16	27	29	32	26	16	26	31	31	26	13	27	29	28	24	15	26	30	30	25
6-18-80	20	28	30	32	27	21	28	34	34	29	15	26	29	26	24	18	27	31	31	27
6-30-80	17	28	30	32	27	18	27	32	33	27	14	27	30	27	25	16	27	31	31	26
7-15-80	15	27	28	32	25	19	33	35	33	30	12	26	28	26	23	15	28	30	30	26
7-29-80	16	27	29	32	26	15	26	31	32	26	12	25	28	25	23	14	26	29	30	25
8-19-80	21	27	29	32	27	22	27	30	32	28	19	25	27	25	24	20	27	29	30	26
9- 3-80	19	27	29	32	27	20	29	30	32	28	16	26	28	25	24	19	27	29	30	26
9-30-80	17	28	29	32	26	17	27	30	32	27	14	26	28	25	23	16	27	29	30	25
10-21-80	26	28	29	32	29	25	28	30	32	29	25	26	28	26	26	25	27	29	30	28
11- 5-80	26	28	29	32	29	25	28	31	32	29	25	26	28	25	26	25	27	29	30	28

## INTRODUCTION

Table 5. Annual herbage yields (lbs/acre) from experimental watersheds - watershed summaries. Ekalaka, Montana, 1968-1980.

Table 5 lists annual production for each watershed in pounds per acre by species. The total production of all grasses (TOTG), all forbs (TOTF), all shrubs (TOTS), and total yield (TOTY) is summarized. The mean for all years for each category is listed.

Herbage species with a 12-year mean production of less than one lb/acre were listed under miscellaneous. A glossary of terms showing common names of the plants is at the end of this appendix.

Production was measured at each quadrant of each watershed in randomly selected 0.5- x 2.0-meter sample plots, and watershed production in pounds per acre was calculated as the average of the four plots. Grasses and forbs were clipped by species at ground level for total production, and current year's production was clipped from the shrubs. Production data were not taken for 1974.

All samples were oven dried at 60° centigrade for one day before weighing.



Table 5. Annual herbage yields (lb/acre) from experimental watersheds: watershed summaries.  
Ekalaka, Montana, 1968-1980.

Watershed	Species	Year												Mean
		1968	69	70	71	72	73	75	76	77	78	79	1980	
13	AGSM/AGDA	11	29	7	21	0	0	45	0	24	24	0	70	20
	KOCR	0	0	1	0	0	0	0	0	0	0	62	0	5
	PUAI	8	34	54	72	58	82	83	78	9	64	0	53	50
	SPAI	27	2	45	32	20	62	21	149	73	83	91	21	52
	POSE	0	0	0	0	0	0	0	0	0	3	14	0	2
	MISC GRAS	0	0	5	0	98	43	13	0	0	0	3	4	13
	ATNU	0	0	0	0	0	0	0	30	0	0	0	0	3
	XASA	0	2	1	14	0	0	0	0	0	0	0	0	1
	MISC SHRB	0	0	0	3	1	32	0	0	0	0	121	0	13
	TOTG	45	65	112	125	176	186	162	227	106	174	169	147	142
	TOTF	37	76	55	169	118	43	115	31	107	326	0	28	92
	TOTS	0	2	1	17	1	32	0	30	0	0	121	0	17
	TOTY	83	143	169	311	294	261	277	289	213	500	291	175	251
14	AGSM/AGDA	33	35	41	31	0	0	34	14	37	98	0	56	31
	PUAI	27	5	17	3	8	21	83	56	1	17	0	7	21
	SPAI	42	33	43	4	28	45	46	61	3	53	30	54	37
	POSE	0	0	0	0	0	0	0	0	0	0	73	0	6
	MISC GRAS	0	0	0	0	63	120	5	4	2	0	0	4	16
	ATNU	0	0	0	0	0	0	32	0	0	12	0	0	4
	XASA	25	12	7	15	0	0	0	0	0	0	0	0	5
	MISC SHRB	0	0	0	1	12	20	0	0	16	0	97	24	14
	TOTG	102	73	101	37	99	187	169	135	42	168	103	122	111
	TOTF	16	48	27	32	49	10	113	227	120	55	0	26	61
	TOTS	25	12	7	16	12	20	32	0	16	12	97	24	23
	TOTY	143	133	135	86	160	217	314	362	178	235	201	172	195

Table 5. Annual herbage yields (lb/acre) from experimental watersheds: watershed summaries.  
Ekalaka, Montana, 1968-1980. (cont.)

Watershed	Species	Year													Mean
		1968	69	70	71	72	73	75	76	77	78	79	1980		
15	AGSM/AGDA	22	16	11	35	0	0	75	0	47	105	14	38	30	
	KOCR	33	4	25	1	0	0	0	40	12	15	17	1	12	
	PUAI	0	4	21	10	7	24	5	25	4	12	4	29	12	
	SPAI	55	84	87	41	43	52	53	117	84	37	87	66	67	
	POSE	0	0	0	0	0	0	0	0	0	20	9	0	3	
	MISC GRAS	0	0	0	0	70	87	0	0	1	0	0	0	13	
	ATNU	0	0	0	0	0	0	0	100	0	27	0	0	11	
	XASA	31	4	6	6	0	0	0	0	0	9	0	0	4	
	MISC SHRB	0	0	0	0	49	33	0	0	0	0	62	0	12	
	TOTG	111	108	145	87	120	163	133	182	148	189	132	134	137	
	TOTF	60	39	32	28	38	17	123	188	223	31	21	21	69	
	TOTS	31	4	6	6	49	33	0	100	0	36	62	0	27	
TOTY	202	151	183	120	208	213	256	470	371	256	215	155	233		
16	AGSM/AGDA	21	53	88	68	0	0	46	0	61	95	0	120	46	
	KOCR	2	0	15	8	0	0	0	0	15	6	0	4	4	
	PUAI	22	46	42	54	85	111	117	87	14	48	59	78	64	
	SPAI	20	0	91	107	77	111	67	133	74	32	56	79	71	
	POSE	0	0	0	8	0	0	0	0	0	4	13	0	2	
	MISC GRAS	0	0	0	0	146	105	1	0	0	0	0	0	21	
	ATNU	0	0	0	0	0	0	102	0	0	0	0	0	9	
	XASA	4	1	2	11	0	0	0	0	0	0	0	0	2	
	MISC SHRB	0	0	0	0	12	14	0	0	0	0	187	0	17	
	TOTG	65	99	236	245	308	326	231	220	164	186	129	281	208	
	TOTF	45	130	70	76	147	59	165	169	74	435	319	28	143	
	TOTS	4	1	2	11	12	14	102	0	0	0	187	0	28	
TOTY	113	230	308	332	467	400	498	390	238	621	636	309	379		

Table 5. Annual herbage yields (lb/acre) from experimental watersheds: watershed summaries.  
Ekalaka, Montana, 1968-1980. (cont.)

Watershed	Species	Year												Mean
		1968	69	70	71	72	73	75	76	77	78	79	1980	
21	AGSM/AGDA	93	327	277	543	632	224	246	318	323	378	393	138	325
	KOCR	20	43	18	22	0	0	23	110	29	13	65	14	29
	BOGR/BUDA	7	4	37	5	0	0	5	4	37	85	7	8	17
	POSE	2	20	10	45	0	0	33	112	1	50	0	0	22
	SCPA	0	4	0	0	0	0	0	0	0	0	0	2	1
	HOJU	0	0	1	0	0	0	0	2	0	0	0	0	0
	MISC GRAS	0	0	95	5	47	37	3	0	5	0	0	0	16
	ARFR	0	0	7	27	0	0	0	0	4	62	0	0	8
	ATNU	0	0	65	19	0	0	0	28	0	108	46	0	22
	XASA	0	6	0	4	0	0	0	0	0	7	0	0	2
	ARTR	0	0	0	87	12	9	0	0	0	0	0	1	9
	MISC SHRB	0	0	0	0	2	4	0	0	0	0	0	0	1
	TOTG	121	398	439	621	679	261	310	546	396	526	466	162	410
	TOTF	78	123	23	138	115	221	274	246	94	209	310	29	155
	TOTS	0	6	72	137	13	12	0	28	4	178	46	1	42
	TOTY	199	527	534	896	807	495	584	820	493	913	822	193	607
22	AGSM/AGDA	38	147	103	112	104	112	241	181	95	255	0	169	130
	KOCR	5	21	35	37	0	0	0	137	38	19	0	8	25
	BOGR/BUDA	34	63	15	57	0	0	12	184	18	26	153	93	54
	POSE	13	3	8	32	0	0	1	25	29	29	183	1	27
	SCPA	0	1	0	0	0	0	1	0	0	0	0	0	0
	MISC GRAS	0	0	0	1	113	127	0	109	24	0	12	0	32
	ARFR	0	0	0	3	0	0	0	1	0	9	0	0	1
	ATNU	0	0	19	18	0	0	30	184	112	27	0	0	32
	XASA	0	19	4	3	0	0	0	0	0	0	0	0	2
	ARTR	0	0	14	33	21	45	0	0	6	0	0	5	11
	MISC SHRB	0	0	0	0	8	45	0	0	84	0	0	0	12
	TOTG	91	235	161	238	218	239	254	636	203	328	348	271	268
	TOTF	45	66	100	44	52	114	40	62	21	108	203	68	77
	TOTS	0	19	37	56	29	90	30	185	202	36	0	5	58
	TOTY	136	319	297	338	299	443	325	882	426	472	551	344	403

Table 5. Annual herbage yields (lb/acre) from experimental watersheds: watershed summaries.  
 Ekalaka, Montana, 1968-1980. (cont.)

Watershed	Species	1968	69	70	Year										Mean
					71	72	73	75	76	77	78	79	1980		
23	AGSM/AGDA	51	92	128	169	121	156	224	139	151	190	10	191	135	
	KOCR	46	12	43	37	0	0	29	72	26	128	6	23	36	
	BOGR/BUDA	63	61	23	52	0	0	35	145	58	25	55	66	49	
	POSE	37	4	6	22	0	0	16	34	59	58	0	0	20	
	MISC GRAS	0	1	0	0	113	124	0	11	0	0	73	2	27	
	ARFR	0	0	0	0	0	0	28	4	0	7	0	0	3	
	ATNU	21	0	0	4	0	0	12	0	28	6	15	0	7	
	XASA	0	28	23	0	0	0	0	0	0	0	0	0	4	
	ARTR	0	0	15	64	11	33	0	0	0	0	0	13	11	
	MISC SHRB	0	0	0	0	12	4	0	0	0	0	0	0	1	
	TOTG	198	169	200	279	235	280	304	401	293	401	145	282	267	
	TOTF	72	41	48	12	43	29	95	46	68	114	210	24	67	
	TOTS	21	28	38	68	23	37	40	4	28	13	15	13	26	
	TOTY	292	237	286	359	301	346	439	452	389	529	369	319	360	
24	AGSM/AGDA	98	533	414	767	902	477	686	954	198	173	105	304	467	
	KOCR	27	15	5	12	0	0	7	88	37	48	48	24	26	
	BOGR/BUDA	15	12	4	1	0	0	49	3	1	266	25	30	34	
	STVI	0	0	0	0	0	0	66	0	0	0	0	0	6	
	POSE	2	9	6	10	0	0	6	37	0	36	0	0	9	
	SCPA	0	5	0	0	0	0	12	0	0	0	0	0	1	
	MISC GRAS	0	0	0	0	8	17	0	0	0	5	37	14	7	
	ARFR	0	0	0	3	0	0	0	0	0	25	3	1	3	
	ATNU	77	0	0	0	0	0	0	0	16	13	25	0	11	
	XASA	0	15	2	7	0	0	0	0	0	22	0	0	4	
	ARTR	0	0	8	62	11	21	0	0	0	0	0	0	9	
	MISC SHRB	0	0	0	0	5	22	0	0	0	0	0	0	2	
	TOTG	142	574	429	790	910	494	826	1082	236	528	215	373	550	
	TOTF	47	75	83	117	128	131	115	212	161	300	343	24	145	
	TOTS	77	15	10	72	16	43	0	0	16	60	28	1	29	
	TOTY	266	664	522	979	1054	668	941	1294	413	888	586	398	724	

Table 5. Annual herbage yields (lb/acre) from experimental watersheds: watershed summaries.  
Ekalaka, Montana, 1968-1980. (cont.)

Watershed	Species	Year												Mean
		1968	69	70	71	72	73	75	76	77	78	79	1980	
25	AGSM/AGDA	181	408	551	705	732	523	774	1081	326	420	0	284	499
	KOCR	5	5	23	11	0	0	33	43	13	106	44	17	25
	BOGR/BUDA	12	49	5	70	0	0	1	23	71	194	27	21	39
	STVI	0	0	0	0	0	0	12	0	0	0	0	0	1
	POSE	11	22	9	87	0	0	5	41	0	62	284	0	43
	SCPA	0	18	0	0	0	0	28	58	0	0	0	0	9
	HOJU	0	0	0	0	0	0	0	12	0	15	0	0	2
	MISC GRAS	0	3	0	2	49	76	1	0	0	129	0	0	22
	ARFR	0	0	4	13	0	0	0	0	0	33	0	0	4
	ATNU	0	0	10	0	0	0	51	0	0	76	0	0	11
	XASA	0	0	1	5	0	0	0	0	0	39	0	0	4
	ARTR	0	0	34	58	53	59	0	0	0	0	0	13	18
	MISC SHRB	0	0	0	0	6	1	0	0	0	0	0	0	1
	TOTG	210	505	589	874	781	599	855	1258	411	927	354	322	640
	TOTF	5	55	37	21	33	60	15	74	21	175	380	23	75
	TOTS	0	0	48	77	59	60	51	0	0	148	0	13	38
	TOTY	215	560	674	972	873	718	921	1332	433	1250	734	359	753
26	AGSM/AGDA	115	91	73	150	169	128	144	72	55	103	66	82	104
	KOCR	53	4	29	11	0	0	32	76	49	77	29	12	31
	BOGR/BUDA	64	109	44	111	0	0	70	66	70	63	30	78	59
	POSE	4	9	16	46	0	0	0	35	7	34	0	0	13
	MISC GRAS	11	0	8	2	135	118	0	5	32	0	39	0	29
	ARFR	0	0	4	7	0	0	0	7	1	18	0	6	4
	ATNU	0	0	2	0	0	0	0	0	3	13	0	0	2
	XASA	0	0	20	9	0	0	0	0	0	0	0	0	2
	ARTR	0	0	89	66	19	54	0	0	0	0	0	19	21
	MISC SHRB	0	0	0	0	70	34	0	0	5	0	0	0	9
	TOTG	247	213	170	320	304	246	246	254	213	277	164	172	236
	TOTF	37	12	96	46	43	37	36	27	42	64	277	31	62
	TOTS	0	0	115	82	89	88	0	7	9	31	0	25	38
	TOTY	284	225	381	448	436	371	282	288	264	372	441	228	336

Table 5. Annual herbage yields (lb/acre) from experimental watersheds: watershed summaries.  
Ekalaka, Montana, 1968-1980. (cont.)

Watershed	Species	Year												Mean
		1968	69	70	71	72	73	75	76	77	78	79	1980	
31	AGSM/AGDA	82	229	483	581	452	176	454	260	72	112	0	222	260
	KOCR	1	0	5	3	0	0	0	32	71	24	15	17	14
	BOGR/BUDA	37	0	8	3	0	0	0	18	0	0	22	2	8
	POSE	51	95	11	40	0	0	14	475	20	461	194	1	113
	SCPA	0	58	0	19	0	0	0	42	0	0	0	3	10
	HOJU	0	37	0	70	0	0	23	107	0	75	15	10	28
	MISC GRAS	0	0	0	0	302	148	0	0	21	0	107	1	48
	ATNU	16	5	4	12	0	0	0	0	0	0	0	0	3
	XASA	0	0	0	0	0	0	0	0	0	15	0	0	1
	ARTR	0	0	71	179	39	98	0	0	0	0	0	21	34
	MISC SHRB	0	0	0	0	4	7	0	0	0	0	0	5	1
	TOTG	171	419	507	716	754	324	491	934	184	672	353	256	481
	TOTF	2	128	10	12	2	74	62	54	15	180	186	4	61
	TOTS	16	5	75	191	43	105	0	0	0	15	0	26	39
	TOTY	189	552	592	919	799	503	553	988	199	867	539	286	581
32	AGSM/AGDA	89	123	76	64	19	58	166	36	21	48	0	56	63
	KOCR	0	0	0	0	0	0	0	14	2	0	0	0	1
	BOGR/BUDA	54	128	47	46	0	0	76	85	4	13	36	53	45
	POSE	19	19	63	139	0	0	22	85	0	116	0	0	39
	MISC GRAS	0	2	0	1	190	166	0	1	17	0	69	1	37
	ATNU	6	0	0	0	0	0	0	0	0	0	0	0	1
	ARTR	0	0	25	70	39	50	0	0	0	0	0	70	21
	MISC SHRB	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTG	162	271	186	251	209	224	264	220	45	178	104	110	185
	TOTF	6	0	0	1	1	0	39	1	0	0	0	1	4
	TOTS	6	0	25	70	39	50	0	0	0	4	0	70	22
	TOTY	174	271	211	322	249	274	303	221	45	182	104	181	211

Table 5. Annual herbage yields (lb/acre) from experimental watersheds: watershed summaries.  
Ekalaka, Montana, 1968-1980. (cont.)

Watershed	Species	Year												Mean
		1968	69	70	71	72	73	75	76	77	78	79	1980	
33	AGSM/AGDA	80	127	67	68	66	73	157	88	26	78	2	54	74
	KOCR	0	0	1	0	0	0	0	41	19	34	12	0	9
	BOGR/BUDA	37	84	58	26	0	0	71	106	66	22	52	54	48
	POSE	21	30	29	132	0	0	6	13	1	53	23	0	26
	SCPA	0	0	0	12	0	0	0	0	0	0	0	0	1
	MISC GRAS	0	0	0	0	196	130	0	0	5	0	12	0	29
	ATNU	0	0	10	0	0	0	0	16	21	0	0	0	4
	ARTR	0	0	52	123	45	78	0	0	0	0	0	41	28
	MISC SHRB	0	0	0	0	0	3	0	0	2	0	0	1	0
	TOTG	138	241	154	237	262	203	235	249	117	187	102	107	186
	TOTF	2	0	0	1	1	0	1	30	0	0	0	0	3
	TOTS	0	0	62	123	45	80	0	16	23	0	0	42	33
	TOTY	140	241	216	361	308	283	236	295	140	187	102	149	222
34	AGSM/AGDA	40	270	483	556	613	231	490	813	508	310	0	186	375
	KOCR	0	0	2	4	0	0	0	6	14	81	0	4	9
	BOGR/BUDA	6	92	29	25	0	0	15	5	4	0	8	16	17
	POSE	5	55	16	19	0	0	0	342	12	101	375	1	77
	SCPA	0	22	1	17	0	0	0	19	2	0	0	5	6
	HOJU	0	0	0	0	0	0	78	201	0	31	55	0	30
	MISC GRAS	4	0	2	0	207	129	10	19	1	39	9	6	36
	ARFR	0	0	0	14	0	0	0	0	0	0	0	12	2
	ATNU	0	52	2	7	0	0	0	0	0	0	0	15	6
	ARTR	0	0	40	181	94	89	0	0	0	0	0	1	34
	MISC SHRB	0	0	0	0	4	3	0	0	2	0	0	0	1
	TOTG	55	439	533	621	820	360	593	1405	541	562	447	218	550
	TOTF	79	165	21	20	46	9	246	271	24	23	52	1	80
	TOTS	0	52	42	202	98	92	0	0	2	0	0	29	43
	TOTY	134	656	596	843	964	461	839	1676	567	585	499	248	673

Table 5. Annual herbage yields (lb/acre) from experimental watersheds: watershed summaries.  
 Ekalaka, Montana, 1968-1980. (cont.)

Watershed	Species	Year													Mean
		1968	69	70	71	72	73	75	76	77	78	79	1980		
35	AGSM/AGDA	53	65	85	42	29	50	65	97	7	78	37	35	54	
	KOCR	11	0	1	1	0	0	0	0	5	21	21	0	5	
	BOGR/BUDA	69	86	69	37	0	0	113	66	45	8	43	60	50	
	POSE	4	16	31	64	0	0	12	34	0	2	72	0	19	
	MISC GRAS	0	0	0	0	207	170	0	0	18	0	0	25	35	
	ATNU	12	6	0	1	0	0	0	0	0	0	0	0	2	
	ARTR	0	0	97	169	87	72	0	0	0	0	0	87	42	
	MISC SHRB	0	0	4	0	3	0	0	0	4	0	0	0	1	
	TOTG	137	167	186	144	236	220	190	197	75	109	173	120	163	
	TOTF	2	0	2	1	4	0	10	0	4	7	26	16	6	
	TOTS	12	6	101	169	90	72	0	0	4	0	0	87	45	
	TOTY	151	173	289	314	330	292	200	197	83	116	199	223	214	
36	AGSM/AGDA	129	219	326	650	428	263	473	368	607	53	10	194	310	
	KOCR	4	24	1	21	0	0	0	175	31	52	0	24	28	
	BOGR/BUDA	16,	19	7	0	0	0	7	6	51	28	29	1	13	
	POSE	5	48	4	26	0	0	0	109	21	57	0	2	23	
	SCPA	0	33	5	9	0	0	12	0	0	0	0	0	5	
	HOJU	0	0	10	0	0	0	5	44	0	36	0	0	8	
	MISC GRAS	5	0	0	0	152	166	21	0	9	26	133	0	43	
	ARFR	0	0	5	4	0	0	16	2	0	0	0	3	3	
	ATNU	58	9	13	23	0	0	0	0	0	0	0	0	9	
	ARTR	0	0	161	132	143	66	0	0	0	0	0	18	43	
	MISC SHRB	0	0	0	4	18	2	0	0	0	0	0	0	2	
	TOTG	159	343	353	706	580	429	518	702	719	252	172	221	430	
	TOTF	21	55	16	47	53	78	179	977	51	768	1081	5	277	
	TOTS	58	9	179	163	161	68	16	2	0	0	0	21	57	
	TOTY	238	407	548	916	793	574	713	1681	770	1020	1253	247	764	

## INTRODUCTION

Table 6. Annual herbage yields (lbs/acre) from experimental watersheds - site summaries. Ekalaka, Montana, 1968-1980.

Table 6 summarizes annual production in pounds per acre by species for each year by site for nonfurrowed (C) and furrowed (F) watersheds. The total production for each year for all grasses (TOTG), all forbs (TOTF), all shrubs (TOTS), and total yield (TOTY) is also summarized, and the mean of all years for each category is listed.

Herbage species with a 12-year mean production of less than 5 lbs/acre were listed under miscellaneous. A glossary of terms showing common names of the plants is at the end of this appendix.

Production was measured at each quadrant of each watershed in randomly selected 0.5- x 2.0-meter sample plots, and watershed production in pounds per acre was calculated from the average of the four plots. Grasses and forbs were clipped by species at ground level for total production, and current year's production was clipped from the shrubs. Production data were not taken for 1974.

All samples were oven dried at 60° centigrade for one day before weighing.



Table 6. Annual herbage yields (lb/acre) from experimental watersheds: Site summaries. Ekalaka, Montana, 1968-1980.

Species or Species Group	Treat- ment	Year													Mean
		1968	69	70	71	72	73	75	76	77	78	79	1980		
		Site 1													
AGSM/AGDA	C	28	26	26	33	0	0	54	7	42	102	7	47	31	
KOCR	F	16	41	48	45	0	0	46	0	43	60	0	95	33	
	C	17	2	12	1	0	0	0	22	6	8	9	1	6	
PUAI	F	1	0	8	4	0	0	0	0	8	4	31	2	4	
	C	13	5	20	6	8	23	45	41	3	15	3	18	16	
SPAI	F	15	40	48	63	71	96	100	83	12	56	29	65	56	
	C	49	59	65	22	36	49	50	89	44	45	59	61	52	
MISC GRAS	F	23	1	69	70	48	87	45	141	74	58	74	50	62	
	C	0	0	0	0	67	104	3	0	0	10	41	3	19	
ATNU	F	0	0	3	0	122	74	7	0	0	4	16	2	19	
	C	0	0	0	0	0	0	16	50	0	20	0	0	7	
MISC SHRB	F	0	0	0	0	0	0	51	15	0	0	0	0	6	
	C	29	8	7	12	30	27	0	0	8	4	80	12	18	
TOTG	F	2	2	2	14	7	23	0	0	0	0	154	0	17	
	C	107	92	123	62	111	176	152	159	95	180	119	130	124	
TOTF	F	55	82	176	182	241	257	198	224	137	182	150	214	174	
	C	38	35	29	30	44	13	119	208	172	44	11	24	64	
TOTS	F	41	103	62	123	133	51	140	101	91	381	160	28	118	
	C	29	8	7	12	30	27	16	50	8	24	80	12	25	
TOTY	F	2	2	2	14	7	23	51	15	0	0	154	0	23	
	C	174	135	159	104	185	216	287	417	275	248	210	166	213	
	F	98	187	240	319	381	331	389	340	228	563	464	242	315	

Table 6. Annual herbage yields (lb/acre) from experimental watersheds: Site summaries.  
 Ekalaka, Montana, 1968-1980.

Species or Species Group	Treat- ment	Year													Mean
		1968	69	70	71	72	73	75	76	77	78	79	1980		
		Site 2													
AGSM/AGDA	C	68	110	101	144	132	132	202	131	100	183	25	147	123	
	F	124	423	414	672	756	408	569	785	283	324	166	242	430	
KOCR	C	35	12	36	28	0	0	21	95	37	75	12	14	30	
	F	17	21	15	15	0	0	21	80	27	56	53	19	27	
BOGR/BUDA	C	54	78	28	73	0	0	38	131	49	38	79	79	54	
	F	12	22	15	26	0	0	19	10	37	182	20	20	30	
POSE	C	19	5	10	34	0	0	5	31	31	40	61	0	20	
	F	4	17	8	47	0	0	15	63	0	49	95	0	25	
MISC GRAS	C	4	1	3	1	120	123	0	42	19	0	42	1	30	
	F	0	10	34	3	35	44	40	24	2	50	12	5	22	
ARFR	C	0	0	1	4	0	0	9	4	0	12	0	2	3	
	F	0	0	4	14	0	0	0	0	1	40	1	0	5	
ATNU	C	7	0	7	7	0	0	14	62	47	15	5	0	13	
	F	26	0	25	6	0	0	17	9	5	66	24	0	15	
ARTR	C	0	0	39	54	17	44	0	0	2	0	0	12	14	
	F	0	0	14	69	25	29	0	0	0	0	0	4	12	
MISC SHRB	C	0	15	15	4	30	28	0	0	29	0	0	0	10	
	F	0	7	1	5	4	9	0	0	0	23	0	0	4	
TOTG	C	178	205	177	279	252	255	268	430	237	335	219	242	257	
	F	104	492	487	762	790	451	664	962	348	660	345	285	534	
TOTF	C	52	39	81	34	45	60	57	45	44	95	230	50	69	
	F	44	85	48	92	92	137	135	178	92	227	344	26	125	
TOTS	C	7	15	63	69	47	71	23	65	79	27	5	14	40	
	F	26	7	44	95	29	38	17	9	6	128	25	5	36	
TOTY	C	237	260	321	382	345	386	348	541	360	458	454	297	366	
	F	227	584	579	949	912	627	815	1149	447	1017	714	317	695	

Table 6. Annual herbage yields (lb/acre) from experimental watersheds: Site summaries.  
Ekalaka, Montana, 1968-1980.

Species or Species Group	Treat- ment	Year													Mean
		1968	69	70	71	72	73	75	76	77	78	79	1980		
		Site 3													
AGSM/AGDA	C	74	105	76	58	37	61	129	74	18	69	13	48	63	
KOCR	F	84	239	431	596	498	223	472	481	396	159	4	201	315	
	C	4	0	1	0	0	0	0	19	9	19	11	0	5	
	F	2	8	3	9	0	0	0	71	39	53	5	15	17	
BOGR/BUDA	C	54	99	58	37	0	0	87	86	38	14	44	55	47	
POSE	F	20	37	15	9	0	0	7	10	18	9	20	6	12	
	C	14	21	41	112	0	0	13	44	0	57	32	0	28	
	F	21	66	11	29	0	0	4	309	18	206	189	1	71	
SCPA	C	0	1	0	4	0	0	0	0	0	0	0	0	0	
HOJU	F	0	37	2	15	0	0	4	21	1	0	0	3	7	
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	
	F	0	12	4	23	0	0	36	117	0	47	23	4	22	
MISC GRAS	C	0	0	0	0	198	155	3	0	13	0	27	9	34	
ATNU	F	3	0	1	0	220	148	11	6	11	21	73	3	41	
	C	6	2	4	0	0	0	0	5	7	0	0	0	2	
	F	25	22	6	14	0	0	0	0	0	0	0	5	6	
ARTR	C	0	0	58	120	57	67	0	0	0	0	0	66	30	
	F	0	0	91	164	92	85	0	0	0	0	0	13	37	
	C	0	0	1	0	1	1	0	0	2	0	0	0	0	
MISC SHRB	F	0	0	2	8	8	4	5	1	1	5	0	7	3	
TOTG	C	145	227	176	211	235	216	232	222	78	158	127	112	177	
TOTF	F	128	401	465	680	718	371	534	1013	482	495	314	232	485	
	C	4	0	1	1	2	0	17	11	1	3	9	5	4	
	F	34	116	15	27	34	54	162	434	30	324	440	4	139	
TOTS	C	6	2	62	121	58	68	0	5	9	1	0	66	32	
	F	25	22	99	186	100	88	5	1	1	5	0	25	46	
	C	154	228	238	333	295	284	249	238	89	161	135	184	213	
TOTY	F	187	539	580	892	852	513	703	1449	512	824	754	260	670	



## INTRODUCTION

Table 7. Soil water content (volumetric percent) of top four 1-foot soil profile increments - furrow-width study. Ekalaka, Montana, 1976-1980.

Table 7 is a summary of soil water content by volumetric percent of the top four 1-foot-soil profile increments for each furrow-width treatment. Treatments were nonfurrowed (check), 14-inch furrow, 24-inch furrow, and 34-inch furrow.

Soil water was measured by the neutron scatter method in 1½-inch access tubes in four replications. Each furrow width had four access tubes in the furrows and four access tubes on the adjacent ridge. The data for each depth in the profile are an average of the soil water content of the ridge and the furrow for the four replications. All means were calculated from profile values before rounding.



Table 7. Soil water content (volumetric percent) of top four 1-foot soil profile increments - furrow-width study. Ekalaka, Montana, 1976-1980.

Profile depth Increment (ft.)												
	Check				14-inch furrow				24-inch furrow			
	0-1	1-2	2-3	3-4	0-1	1-2	2-3	3-4	0-1	1-2	2-3	3-4
Date												
10/14/76	21	29	32	32	24	29	30	30	21	30	31	31
3/23/77	23	26	28	29	27	26	27	27	27	27	28	28
4/13/77	24	26	29	29	31	27	28	28	31	28	29	29
5/ 3/77	22	27	30	29	28	26	28	27	27	27	29	29
5/25/77	18	26	28	29	18	26	28	27	12	28	28	28
6/ 7/77	17	26	29	29	24	27	28	28	18	29	29	29
6/29/77	20	27	29	29	25	27	28	28	21	28	29	29
7/12/77	18	26	29	29	22	26	28	28	17	28	29	29
8/10/77	19	27	29	29	23	27	28	28	18	28	29	29
8/31/77	18	26	29	29	22	27	28	27	16	28	29	29
9/ 7/77	17	27	30	29	22	26	28	28	16	27	29	29
9/28/77	21	26	29	29	24	27	29	28	20	28	29	30
10/13/77	22	27	30	30	30	26	28	27	29	28	29	29
10/27/77	21	26	29	29	30	27	28	28	27	28	29	29
11/ 9/77	20	26	29	28	30	27	28	28	27	28	29	29
4/13/78	25	29	33	32	33	30	31	30	38	31	32	32
4/25/78	35	35	38	32	30	31	31	31	33	32	32	34
5/10/78	25	29	33	32	34	30	31	30	39	32	33	32
5/24/78	23	30	33	32	32	29	31	30	37	32	32	32
6/ 6/78	23	29	31	32	31	30	31	30	30	32	32	32
6/22/78	19	30	33	33	24	30	32	31	22	31	32	32
7/12/78	22	30	32	33	27	30	31	30	22	32	32	32
7/27/78	23	30	33	33	29	30	31	31	24	31	32	32
8/ 9/78	22	31	34	33	30	30	32	31	25	33	33	33
											34	34

Table 7. Soil water content (volumetric percent) of top four 1-foot soil profile increments - furrow-width study. Ekalaka, Montana, 1976-1980.

Profile depth Increment (ft.)	Check				14-inch furrow				24-inch furrow				34-inch furrow			
	0-1	1-2	2-3	3-4	0-1	1-2	2-3	3-4	0-1	1-2	2-3	3-4	0-1	1-2	2-3	3-4
Date	8/23/78	20	31	33	33	25	31	31	31	19	32	33	33	23	34	34
	9/20/78	23	29	32	32	29	29	30	30	25	30	32	32	30	32	32
	10/ 3/78	21	29	32	31	27	29	29	29	23	30	31	32	28	32	32
	10/18/78	20	30	33	33	26	29	31	31	21	31	33	32	26	33	33
	10/31/78	21	29	32	32	25	29	31	30	18	31	32	32	27	32	32
Date	4/25/79	26	30	32	32	33	29	30	30	38	32	32	31	39	36	33
	5/15/79	24	30	33	32	31	30	31	30	34	33	32	32	38	34	33
	6/13/79	22	29	32	31	26	29	30	30	22	30	32	31	28	33	32
	7/30/79	23	30	33	33	28	30	31	30	22	31	32	32	25	32	34
	9/26/79	19	30	33	33	24	29	31	30	18	30	33	32	20	31	33
Date	10/16/79	21	30	32	32	25	30	31	30	20	30	32	32	21	31	33
	4/16/80	21	29	32	32	28	29	31	30	24	29	32	32	28	33	32
	5/ 1/80	17	29	32	33	24	30	31	31	17	30	32	32	21	33	33
	5/14/80	15	28	31	31	21	28	30	29	14	28	31	31	17	30	31
	5/28/80	15	29	32	33	21	29	32	31	13	29	32	33	14	31	33
Date	6/19/80	19	29	32	33	28	30	31	31	20	31	32	33	27	33	31
	7/ 1/80	17	30	33	33	24	30	32	31	16	30	32	32	19	32	33
	7/15/80	15	29	32	33	28	30	32	31	14	30	32	32	16	31	33
	7/29/80	16	29	33	33	24	30	32	32	13	29	32	33	15	30	33
	8/20/80	20	29	32	32	21	29	31	31	22	29	32	32	27	31	32
Date	9/ 4/80	19	29	33	32	21	30	31	31	18	30	32	32	24	31	33
	9/30/80	17	30	33	33	28	30	32	31	16	30	32	32	19	31	33
	10/22/80	25	29	32	32	24	29	31	30	25	29	32	32	33	31	32
	11/ 4/80	25	29	32	32	28	30	31	31	26	30	32	32	32	31	33

## INTRODUCTION

Table 8. Yields (lbs/acre) from furrow-width study - Ekalaka, Montana, 1977-1980.

Table 8 lists annual production in pounds per acre by major species by treatment from the furrow-width study.

Contour furrows with widths of 14, 24, and 34 inches were constructed with a lister-type furrower on a claypan range site in May 1976. The four seeding treatments included no seeding, Russian wildrye, Russian wildrye and alfalfa (Drylander and Rambler), and alfalfa. The three nitrogen fertilizer treatments were 0, 75, and 150 lbs N/acre applied in a single application in 1976. The treatments were arranged in a split-plot design with the furrowing treatments as main plots and factorial combinations of the seeding and fertilizer treatments as the subplots. The subplots were approximately 50 x 50 feet and were replicated four times.

Production was measured from one randomly located 0.5- x 2.0-meter-sample frame in each plot. Grasses and forbs were clipped by species at ground level for total production, and current year's production was clipped from the shrubs. All samples were oven dried at 60° centigrade for one day before weighing.

Table 8 lists average yield in pounds per acre for the seeded species and for each major native species by treatment. Miscellaneous grasses include small amounts of threadleaf sedge. The data are summarized by total forbs, total grass, total shrubs, and total yield. "--" indicates there was no such treatment, or it was not sampled. Shrubs were primarily Big sagebrush, Fringed sagebrush, Nuttall saltbush, and Broom snakeweed.



Table 8.--Yields (lb/acre) from furrow-width study - Ekalaka, Montana, 1977-1980.

Seeded species												
Non-furrowed				14-inch Furrows			24-inch Furrows			34-inch Furrows		
NO	N75	N150		NO	N75	N150	NO	N75	N150	NO	N75	N150
1978												
Check	0	0	0	0	0	0	0	0	0	0	0	30
RWR	--	--	--	15	50	101	139	65	17	37	56	440
RWR+ALF	--	--	--	28	82	0	46	240	23	596	95	812
ALF	--	--	--	16	0	90	22	244	7	3	531	325
MEAN	--	--	--	15	33	48	52	137	12	159	171	402
1979												
Check	0	0	0	0	0	22	142	419	2	144	35	0
RWR	--	--	--	0	159	269	176	35	458	135	114	155
RWR+ALF	--	--	--	85	319	21	428	399	118	628	128	351
ALF	--	--	--	345	172	254	0	286	409	276	405	385
MEAN	--	--	--	107	162	142	187	285	247	296	170	223
1980												
Check	0	0	0	0	0	0	0	53	0	29	0	0
RWR	--	--	--	33	48	63	112	233	101	131	115	184
RWR+ALF	--	--	--	41	283	13	89	169	107	332	268	315
ALF	--	--	--	50	49	50	128	80	89	31	152	120
MEAN	--	--	--	31	95	31	82	134	74	131	134	155

Table 8.--Yields (lb/acre) from furrow-width study - Ekalaka, Montana, 1977-1980  
(continued).

Western-Thickspike wheatgrass												
Non-furrowed			14-inch Furrows			24-inch Furrows			34-inch Furrows			
NO	N75	N150	NO	N75	N150	NO	N75	N150	NO	N75	N150	
1977												
Check	44	--	154	96	--	310	163	--	409	235	--	322
1978												
Check	134	442	834	310	417	822	847	771	1198	931	549	660
RWR	--	--	--	455	1271	589	634	941	1067	1014	1427	1342
RWR+ALF	--	--	--	445	556	865	480	1180	1043	688	700	787
ALF	--	--	--	560	676	702	701	928	484	1045	739	293
MEAN	--	--	--	443	730	744	666	955	948	919	854	770
1979												
Check	227	144	262	199	220	374	471	501	557	71	49	223
RWR	--	--	--	265	149	357	128	428	203	255	197	213
RWR+ALF	--	--	--	269	287	382	341	380	159	154	492	308
ALF	--	--	--	151	227	422	508	463	247	66	122	288
MEAN	--	--	--	221	221	384	362	443	291	137	215	258
1980												
Check	143	158	294	470	308	353	291	266	342	272	182	282
RWR	--	--	--	204	243	400	209	270	261	206	224	238
RWR+ALF	--	--	--	146	307	548	156	182	256	81	212	209
ALF	--	--	--	273	387	370	168	287	347	226	211	145
MEAN	--	--	--	273	312	418	206	251	302	196	207	219

Table 8.--Yields (lb/acre) from furrow-width study - Ekalaka, Montana, 1977-1980  
(continued).

Prairie junegrass											
Non-furrowed			14-inch Furrows			24-inch Furrows			34-inch Furrows		
NO	N75	N150	NO	N75	N150	NO	N75	N150	NO	N75	N150
1977											
Check	0	--	25	20	--	35	4	--	18	1	--
1978											
Check	20	22	50	0	15	91	43	90	69	37	2
RWR	--	--	--	77	107	77	5	125	44	56	6
RWR+ALF	--	--	--	10	21	68	20	71	36	10	78
ALF	--	--	--	55	90	0	18	50	92	6	20
MEAN	--	--	--	35	58	59	21	84	60	27	26
1979											
Check	45	60	41	0	13	17	49	1	99	0	0
RWR	--	--	--	1	48	0	0	6	0	5	8
RWR+ALF	--	--	--	0	5	4	4	0	145	0	0
ALF	--	--	--	0	14	31	200	14	0	0	4
MEAN	--	--	--	0	20	13	63	5	61	1	2
1980											
Check	5	33	4	3	8	1	2	0	2	5	4
RWR	--	--	--	22	8	0	2	3	2	0	0
RWR+ALF	--	--	--	5	2	0	0	7	0	0	0
ALF	--	--	--	21	2	8	0	0	0	0	0
MEAN	--	--	--	13	5	2	1	3	1	1	3

Table 8.--Yields (lb/acre) from furrow-width study - Ekalaka, Montana, 1977-1980  
(continued).

Sandberg bluegrass												
Non-furrowed			14-inch Furrows			24-inch Furrows			34-inch Furrows			
NO	N75	N150	NO	N75	N150	NO	N75	N150	NO	N75	N150	
1977												
Check	0	--	5	--	8	3	--	0	21	--	4	
1978												
Check	20	38	44									
RWR	--	--	--	12	92	62	105	36	17	56	5	118
RWR+ALF	--	--	--	63	58	60	17	5	53	24	50	45
ALF	--	--	--	23	43	21	47	30	21	3	49	17
MEAN	--	--	--	24	47	82	53	5	48	51	64	17
	--	--	--	30	60	56	56	19	35	34	42	49
1979												
Check	4	0	26	67	39	95	60	129	0	23	27	162
RWR	--	--	--	0	72	20	0	32	0	2	154	13
RWR+ALF	--	--	--	23	0	0	0	124	94	234	6	0
ALF	--	--	--	8	61	21	0	107	0	103	86	0
MEAN	--	--	--	25	43	34	15	98	24	90	68	44
1980												
Check	1	0	0	0	0	0	0	0	0	0	1	0
RWR	--	--	--	0	0	0	0	0	0	0	0	0
RWR+ALF	--	--	--	0	0	0	0	0	0	0	0	0
ALF	--	--	--	0	0	0	0	0	0	0	0	0
MEAN	--	--	--	0	0	0	0	0	0	0	0	0

Table 8.--Yields (lb/acre) from furrow-width study - Ekalaka, Montana, 1977-1980  
(continued).

Blue grama - buffalograss												
Non-furrowed			14-inch Furrows		24-inch Furrows		34-inch Furrows					
NO	N75	N150	NO	N75	N150	NO	N75	N150	NO	N75	N150	
1977												
Check	24	--	.92	0	--	23	40	--	48	0	--	2
1978												
Check	6	35	6	4	45	25	39	9	2	17	0	4
RWR	--	--	--	11	21	19	0	84	0	4	28	0
RWR+ALF	--	--	--	0	5	65	3	20	0	6	55	2
ALF	--	--	--	0	70	0	0	0	2	32	0	28
MEAN	--	--	--	4	35	27	10	28	1	15	21	9
1979												
Check	73	44	138	2	0	5	103	0	0	14	6	0
RWR	--	--	--	0	0	0	0	42	2	111	0	74
RWR+ALF	--	--	--	0	0	0	0	0	0	0	9	0
ALF	--	--	--	3	27	0	0	26	0	0	0	14
MEAN	--	--	--	1	7	1	26	17	1	31	4	22
1980												
Check	21	151	60	50	227	35	32	50	27	21	27	28
RWR	--	--	--	3	1	4	2	20	0	49	48	0
RWR+ALF	--	--	--	71	0	4	2	0	3	54	136	11
ALF	--	--	--	5	19	24	2	1	23	55	82	53
MEAN	--	--	--	32	61	17	10	18	13	45	73	23

Table 8.--Yields (lb/acre) from furrow-width study - Ekalaka, Montana, 1977-1980  
(continued).

Miscellaneous grasses											
Non-furrowed			14-inch Furrows			24-inch Furrows			34-inch Furrows		
NO	N75	N150	NO	N75	N150	NO	N75	N150	NO	N75	N150
1977											
Check	0	--	4	0	--	15	6	--	0	--	39
1978											
Check	0	2	7	0	0	10	0	0	0	44	0
RWR	--	--	--	0	0	0	0	0	0	0	0
RWR+ALF	--	--	--	7	0	0	0	0	16	0	0
ALF	--	--	--	0	4	0	0	0	0	0	33
MEAN	--	--	--	2	1	2	0	0	4	11	9
1979											
Check	25	0	0	0	0	0	14	0	51	2	5
RWR	--	--	--	0	0	0	6	0	0	0	84
RWR+ALF	--	--	--	0	0	0	0	23	0	58	0
ALF	--	--	--	9	0	0	0	0	0	0	5
MEAN	--	--	--	2	0	0	5	6	13	15	24
1980											
Check	25	10	3	0	5	7	8	11	33	3	0
RWR	--	--	--	2	5	0	25	24	6	108	6
RWR+ALF	--	--	--	7	0	0	6	1	0	6	6
ALF	--	--	--	5	0	0	0	0	0	0	22
MEAN	--	--	--	4	3	2	10	9	10	30	8

Table 8.--Yields (lb/acre) from furrow-width study - Ekalaka, Montana, 1977-1980  
(continued).

Total forbs												
Non-Furrowed			14-inch Furrows		24-inch Furrows		34-inch Furrows					
NO	N75	N150	NO	N75	N150	NO	N75	N150	NO	N75	N150	
1977												
Check	9	--	26	2	--	56	6	--	26	105	--	6
1978												
Check	2	5	29	34	22	126	14	15	149	16	36	162
RWR	--	--	--	0	29	45	17	53	209•	42	295	220
RWR+ALF	--	--	--	96	14	49	8	85	59	17	63	81
ALF	--	--	--	15	95	65	29	59	18	67	329	937
MEAN	--	--	--	36	40	71	17	53	109	35	181	350
1979												
Check	81	45	108	4	73	278	175	137	418	280	41	61
RWR	--	--	--	34	353	58	181	324	31	1	239	286
RWR+ALF	--	--	--	4	51	165	123	161	32	105	167	5
ALF	--	--	--	89	99°	107	0	188	133	33	119	7
MEAN	--	--	--	33	144	152	120	202	153	105	141	90
1980												
Check	10	11	7	16	12	38	17	8	26	4	4	78
RWR	--	--	--	1	32	2	0	1	13	5	1	8
RWR+ALF	--	--	--	19	16	16	2	2	0	1	4	12
ALF	--	--	--	43	7	5	1	0	17	37	5	0
MEAN	--	--	--	20	17	15	5	3	14	12	4	25

Table 8.--Yields (lb/acre) from furrow-width study - Ekalaka, Montana, 1977-1980.  
(continued).

Total grass												
Non-furrowed				14-inch Furrows			24-inch Furrows			34-inch Furrows		
NO	N75	N150		NO	N75	N150	NO	N75	N150	NO	N75	N150
1977												
Check	44	--	154	96	--	310	163	--	409	235	--	322
1978												
Check	233	540	940	326	569	1010	1035	906	1286	1041	600	842
RWR	--	--	--	621	1506	846	795	1219	1181	1134	1567	1827
RWR+ALF	--	--	--	513	708	1019	597	1541	1124	1319	977	1643
ALF	--	--	--	655	888	874	794	1227	633	1138	1354	783
MEAN	--	--	--	529	918	937	805	1223	1056	1158	1125	1274
1979												
Check	373	248	468	268	272	512	839	1051	658	303	119	414
RWR	--	--	--	266	427	647	310	543	663	508	474	554
RWR+ALF	--	--	--	377	610	407	773	927	527	1016	693	660
ALF	--	--	--	515	501	728	708	897	656	445	612	696
MEAN	--	--	--	357	453	574	657	855	626	568	474	581
1980												
Check	197	352	369	523	548	396	333	381	379	359	217	321
RWR	--	--	--	265	304	466	350	550	363	392	496	428
RWR+ALF	--	--	--	271	593	566	254	359	369	467	622	540
ALF	--	--	--	355	456	452	299	369	459	312	444	341
MEAN	--	--	--	353	475	470	309	415	393	382	445	408

Table 8.--Yields (lb/acre) from furrow-width study - Ekalaka, Montana, 1977-1980.  
(continued).

Total shrubs												
Non-furrowed			14-inch Furrows			24-inch Furrows			34-inch Furrows			
NO	N75	N150	NO	N75	N150	NO	N75	N150	NO	N75	N150	
1977												
Check	9	--	26	2	--	56	6	--	26	105	--	6
1978												
Check	0	0	0	0	6	15	80	0	52	0	0	0
RWR	--	--	--	0	32	28	0	0	0	0	29	0
RWR+ALF	--	--	--	7	23	63	0	9	8	63	0	0
ALF	--	--	--	9	6	11	0	11	0	43	0	29
MEAN	--	--	--	4	17	29	20	5	15	27	7	7
1979												
Check	11	82	26	0	0	94	0	144	21	0	0	0
RWR	--	--	--	0	7	0	113	0	0	0	0	0
RWR+ALF	--	--	--	0	0	0	0	0	3	0	0	0
ALF	--	--	--	0	17	0	147	0	99	0	0	0
MEAN	--	--	--	0	6	24	65	36	31	0	0	0
1980												
Check	3	6	8	19	4	22	3	9	4	0	6	14
RWR	--	--	--	19	4	17	0	0	0	0	8	32
RWR+ALF	--	--	--	15	14	4	0	0	0	0	14	0
ALF	--	--	--	0	14	2	4	2	1	0	14	4
MEAN	--	--	--	13	9	11	2	3	1	0	10	12

Table 8.--Yield (lb/acre) from furrow-width study Ekalaka, Montana, 1977-1980  
(continued).

Total yield												
Non-furrowed			14-inch Furrows			24-inch Furrows			34-inch Furrows			
NO	N75	N150	NO	N75	N150	NO	N75	N150	NO	N75	N150	
1977												
Check	81	--	326	--	476	225	--	476	255	--	501	393 -- 374
1978												
Check	235	545	969			360	597	1151	1129	922	1487	1057 636 1005
RWR	--	--	--			621	1568	919	811	1272	1390	1177 1891 2047
RWR+ALF	--	--	--			616	746	1131	604	1634	1191	1399 1040 1724
ALF	--	--	--			679	988	950	823	1297	650	1248 1683 1749
MEAN	--	--	--			569	975	1038	842	1281	1180	1220 1313 1631
1979												
Check	465	376	603			272	345	884	1014	1332	1096	583 160 475
RWR	--	--	--			300	788	705	603	867	694	509 713 839
RWR+ALF	--	--	--			381	661	572	896	1088	561	1121 859 664
ALF	--	--	--			604	617	836	856	1085	888	478 731 703
MEAN	--	--	--			389	603	749	842	1093	810	673 616 670
1980												
Check	210	370	384			557	564	456	353	398	409	363 227 413
RWR	--	--	--			285	341	486	351	551	376	397 505 469
RWR+ALF	--	--	--			305	623	586	255	361	370	468 639 552
ALF	--	--	--			398	478	458	304	371	478	349 463 344
MEAN	--	--	--			386	501	497	315	420	408	394 458 445

## INTRODUCTION

Table 9. Soluble cations and anions in me/l, electrical conductivity in mmhos/cm (EC), saturated paste pH, saturation percentage (SAT), sodium absorption ratio (SAR), and exchangeable sodium percentage (ESP) - site averages for experimental watersheds, Ekalaka, Montana.

Table 9 summarizes soil chemistry data taken on the experimental watersheds in the fall of the year in 1968, 1969, 1972, and 1976.

Permanent soil belts 3.3 feet x 16.4 feet were established in each quadrant of each watershed, and soil cores were taken from random locations within these belts. Soil samples were taken from four depths (0-4, 4-8, 8-12, 12-16 inches). Samples were taken in the furrowed watersheds on the ridge (R) and in the furrow (F) at each sampling location. Nonfurrowed (check) watersheds are shown in the table as C. The data is a site average for each depth and treatment. Soluble cations and anions and electrical conductivity (EC) were measured from the saturated paste extract.



Table 9. Soluble cations and anions in me/l, electrical conductivity in mmhos/cm (EC), saturated paste pH, saturation percentage (SAT), sodium absorption ratio (SAR), and exchangeable sodium percentage (ESP) - site averages for experimental watersheds, Ekalaka, Montana.

Treatment	Depth	Ca	Mg	Na	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	Cl	NO <sub>3</sub>	EC	pH	SAT	SAR	ESP
		me/l													
		Inches													
Site 1 - 1968															
F	0-4	15	32	87	0.9	0.2	1.8	152	0.88	0.29	8.9	6.6	111	18	19
F	4-8	12	34	98	1.0	0.1	1.5	148	0.78	0.14	10.4	6.7	141	21	22
F	8-12	11	38	110	1.1	0.1	2.0	171	0.81	0.13	10.9	6.6	155	22	24
F	12-16	10	46	123	1.1	0.3	1.9	167	0.88	0.25	12.0	6.5	155	23	25
R	0-4	14	35	96	1.0	0.4	2.8	186	0.90	0.16	9.6	6.9	84	19	21
R	4-8	13	32	98	0.9	0.4	1.7	220	0.76	0.10	9.4	6.9	134	21	23
R	8-12	11	36	110	1.0	0.4	1.7	143	0.71	0.30	10.6	7.0	149	23	24
R	12-16	10	41	112	1.1	0.1	2.1	156	0.81	0.17	11.3	6.9	147	22	24
C	0-4	13	21	69	0.8	0.0	3.0	131	0.58	0.38	6.7	6.3	71	17	18
C	4-8	13	24	85	0.9	0.0	2.3	157	0.52	0.36	8.3	6.1	118	20	21
C	8-12	14	29	93	1.0	0.1	1.5	178	0.60	0.26	9.2	6.2	149	20	22
C	12-16	13	28	95	0.9	0.0	1.5	177	0.57	0.26	9.1	6.2	161	21	23
Site 2 - 1968															
F	0-4	19	14	39	0.7	1.6	3.2	117	0.44	0.24	4.9	7.4	84	9	11
F	4-8	15	22	75	0.8	1.3	2.5	180	0.52	0.20	7.3	7.5	129	17	20
F	8-12	14	23	83	0.8	0.7	2.9	163	0.56	0.39	7.9	7.5	151	19	21
F	12-16	15	23	78	0.9	0.9	2.5	182	0.62	0.20	8.1	7.6	159	18	20
R	0-4	13	10	43	0.6	2.7	3.3	112	0.58	0.40	4.6	6.7	63	14	16
R	4-8	12	12	57	0.6	2.6	4.2	141	0.60	0.29	6.1	7.3	82	17	19
R	8-12	12	22	79	0.7	2.4	3.6	142	0.68	0.37	7.9	7.4	102	19	21
R	12-16	11	26	89	0.9	1.2	3.4	206	0.54	0.21	8.5	7.6	130	21	23
C	0-4	13	8	28	0.5	1.3	3.8	91	0.44	0.21	3.5	6.4	61	9	10
C	4-8	14	11	40	0.3	1.6	4.2	107	0.31	0.35	4.8	6.8	75	11	12
C	8-12	11	15	54	0.4	1.3	4.6	139	0.62	0.11	6.1	7.1	84	15	17
C	12-16	14	19	68	0.6	1.3	3.8	161	0.99	0.23	7.4	7.2	98	17	19

Table 9. Soluble cations and anions in me/l, electrical conductivity in mmhos/cm (EC), saturated paste pH, saturation percentage (SAT), sodium absorption ratio (SAR), and exchangeable sodium percentage (ESP) - site averages for experimental watersheds, Ekalaka, Montana.

Treatment	Depth	Ca	Mg	Na	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	Cl	NO <sub>3</sub>	EC	pH	SAT	SAR	ESP																
																me/l															
Site 3 - 1968																															
F	0-4	9	5	15	0.3	1.6	5.2	45	0.25	0.17	2.0	7.1	54	7	8																
F	4-8	13	12	30	0.5	1.1	5.6	91	0.32	0.15	4.5	7.5	65	9	11																
F	8-12	13	19	56	0.7	0.9	4.7	138	0.37	0.21	7.0	7.6	71	14	16																
F	12-16	15	20	60	0.9	0.1	5.2	169	0.42	0.19	7.3	7.6	84	14	17																
R	0-4	3	3	13	0.2	0.5	4.9	22	0.30	0.42	1.1	6.5	47	7	9																
R	4-8	8	6	26	0.3	0.0	5.8	69	0.39	0.44	3.5	6.7	56	10	12																
R	8-12	12	13	105	0.5	0.3	7.0	101	0.49	0.25	5.9	7.4	60	29	23																
R	12-16	11	17	51	0.7	0.1	5.9	131	0.36	0.25	6.3	7.6	70	13	16																
C	0-4	3	2	13	0.2	0.0	7.6	4	0.22	0.33	0.8	6.7	48	8	9																
C	4-8	6	5	20	0.2	0.0	11.9	3	0.24	0.33	2.3	7.7	65	9	10																
C	8-12	12	9	35	0.4	0.0	10.1	50	0.40	0.21	4.6	7.8	73	11	13																
C	12-16	13	10	38	0.5	0.0	6.9	67	0.41	0.27	4.9	7.9	77	11	13																
Site 1 - 1969																															
F	0-4	21	18	65	1.3	0.0	2.3	144	0.59	0.18	7.4	6.8	147	15	17																
F	4-8	16	24	89	1.3	0.0	2.5	180	0.69	0.09	8.8	6.6	177	20	22																
F	8-12	11	30	105	1.5	0.0	4.8	201	0.76	0.17	10.3	6.4	165	23	25																
F	12-16	9	32	111	1.5	0.0	2.1	215	0.74	0.12	10.9	6.3	163	25	26																
R	0-4	15	30	93	1.2	0.0	2.8	184	0.71	0.07	9.1	6.8	107	20	22																
R	4-8	19	24	84	1.1	0.0	2.5	175	0.51	0.12	8.6	6.9	155	18	20																
R	8-12	14	28	92	1.2	0.0	2.4	165	0.69	0.25	9.6	7.0	166	21	22																
R	12-16	10	32	109	1.3	0.0	6.9	208	0.73	0.02	10.6	6.8	164	24	25																
C	0-4	14	18	58	0.8	0.0	3.2	127	0.60	0.15	6.6	6.4	62	14	16																
C	4-8	15	21	73	1.0	0.0	2.8	161	0.55	0.27	8.5	6.2	107	17	19																
C	8-12	13	22	83	0.9	0.0	2.0	165	0.59	0.20	8.8	6.0	148	20	22																
C	12-16	12	24	90	1.0	0.0	2.0	183	0.55	0.24	9.6	6.0	143	21	23																

Table 9. Soluble cations and anions in me/l, electrical conductivity in mmhos/cm (EC), saturated paste pH, saturation percentage (SAT), sodium absorption ratio (SAR), and exchangeable sodium percentage (ESP) - site averages for experimental watersheds, Ekalaka, Montana.

Treatment	Depth	Ca	Mg	Na	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	Cl	NO <sub>3</sub>	EC	pH	SAT	SAR	ESP
me/l															
Site 2 - 1969															
F	0-4	20	10	23	0.8	0.0	5.1	95	0.39	0.36	4.7	7.2	82	6	7
F	4-8	16	17	68	1.0	0.0	5.2	142	0.49	0.18	7.8	7.6	131	17	19
F	8-12	15	16	68	0.9	0.0	3.9	168	0.51	0.24	8.2	7.7	149	17	19
F	12-16	16	17	72	0.9	0.0	3.8	164	0.50	0.18	8.4	7.6	149	18	20
R	0-4	18	14	45	0.8	0.1	7.3	133	0.63	0.26	6.0	6.9	75	11	13
R	4-8	16	12	52	0.7	0.0	6.5	129	0.44	0.25	6.3	7.3	84	14	16
R	8-12	17	14	71	0.8	0.0	5.8	141	0.54	0.28	7.9	7.5	98	18	20
R	12-16	14	17	77	0.8	0.0	5.8	172	0.69	0.10	8.3	7.6	131	20	22
C	0-4	13	5	22	0.3	0.0	7.0	69	0.35	0.31	2.9	6.7	63	9	10
C	4-8	16	8	39	0.3	0.0	5.5	107	0.47	0.41	6.0	7.1	75	11	13
C	8-12	16	14	63	0.4	0.0	5.0	147	0.48	0.26	7.6	7.3	89	16	18
C	12-16	14	20	80	0.4	0.0	4.0	176	0.48	0.21	8.8	7.4	102	19	21
Site 3 - 1969															
F	0-4	8	3	9	0.3	0.0	5.1	28	0.28	0.16	1.8	7.1	54	4	4
F	4-8	13	7	23	0.5	0.0	5.7	63	0.28	0.27	4.0	7.5	71	8	9
F	8-12	13	9	35	0.6	0.0	5.6	77	0.39	0.23	4.8	7.4	75	11	13
F	12-16	18	12	42	0.7	0.0	4.0	148	0.48	0.13	5.8	7.1	78	11	13
R	0-4	4	3	5	0.2	0.0	5.0	16	0.45	0.32	1.1	6.5	41	3	2
R	4-8	8	6	20	0.2	0.0	7.0	39	0.41	0.13	3.1	7.3	56	7	8
R	8-12	10	10	35	0.4	0.0	6.5	72	0.45	0.10	4.6	7.4	67	11	13
R	12-16	9	12	41	0.6	0.0	5.9	121	0.48	0.09	5.3	7.6	71	12	15
C	0-4	6	7	22	0.3	0.0	8.3	143	0.36	0.13	1.5	6.8	48	7	9
C	4-8	5	4	17	0.2	0.0	11.4	112	0.44	0.20	2.2	7.7	66	8	9
C	8-12	13	10	35	0.3	0.0	8.1	167	0.49	0.21	4.8	7.6	67	10	12
C	12-16	13	13	42	0.5	0.0	5.7	160	0.61	0.08	5.4	7.6	69	12	14

Table 9. Soluble cations and anions in me/l, electrical conductivity in mmhos/cm (EC), saturated paste pH, saturation percentage (SAT), sodium absorption ratio (SAR), and exchangeable sodium percentage (ESP) - site averages for experimental watersheds, Ekalaka, Montana.

Treatment	Depth	Ca	Mg	Na	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	Cl	NO <sub>3</sub>	EC	pH	SAT	SAR	ESP
		me/l													
		Inches													
		Site 1 - 1972													
F	0-4	11	17	67	1.2	0.0	1.1	0	0.00	0.00	7.9	6.6	110	18	20
F	4-8	9	29	93	1.5	0.0	0.7	0	0.00	0.00	10.6	6.7	143	21	23
F	8-12	8	35	100	1.6	0.0	0.5	0	0.00	0.00	11.4	6.2	138	22	23
F	12-16	8	40	129	2.0	0.0	0.1	0	0.00	0.00	14.3	6.3	150	27	28
R	0-4	10	30	97	1.8	0.0	1.1	0	0.00	0.00	11.1	6.7	119	22	24
R	4-8	9	34	110	1.7	0.0	0.9	0	0.00	0.00	12.4	6.7	116	24	25
R	8-12	9	40	131	2.0	0.0	0.6	0	0.00	0.00	14.3	6.8	148	27	27
R	12-16	8	41	125	1.9	0.0	0.5	0	0.00	0.00	14.4	6.4	154	25	26
C	0-4	10	21	70	1.3	0.0	1.9	0	0.00	0.00	7.3	6.3	69	18	20
C	4-8	10	28	86	1.5	0.0	0.9	0	0.00	0.00	9.9	5.9	110	20	22
C	8-12	9	26	81	1.5	0.0	0.6	0	0.00	0.00	9.3	6.0	127	19	21
C	12-16	9	26	85	1.4	0.0	0.2	0	0.00	0.00	9.6	5.8	182	20	22
Site 2 - 1972															
F	0-4	33	15	34	0.8	0.0	3.5	0	0.00	0.00	4.3	7.0	73	8	9
F	4-8	29	24	52	0.9	0.0	3.2	0	0.00	0.00	6.2	7.1	94	11	12
F	8-12	20	37	75	1.1	0.0	2.5	0	0.00	0.00	8.6	7.3	125	14	16
F	12-16	18	40	81	1.1	0.0	2.3	0	0.00	0.00	9.1	7.2	102	15	17
R	0-4	28	12	25	0.8	0.0	4.1	0	0.00	0.00	3.3	6.9	52	6	6
R	4-8	21	23	51	0.7	0.0	4.6	0	0.00	0.00	5.8	6.9	92	11	13
R	8-12	24	43	78	0.8	0.0	4.1	0	0.00	0.00	8.9	7.1	91	14	16
R	12-16	21	55	93	1.1	0.0	3.6	0	0.00	0.00	9.8	7.2	67	15	17
C	0-4	18	11	38	0.4	0.0	4.1	0	0.00	0.00	6.8	6.8	62	11	12
C	4-8	21	21	56	0.4	0.0	4.0	0	0.00	0.00	6.5	7.1	69	12	14
C	8-12	21	36	71	0.6	0.0	3.2	0	0.00	0.00	8.2	7.0	73	13	15
C	12-16	18	40	79	0.6	0.0	2.4	0	0.00	0.00	9.1	7.0	89	15	17

Table 9. Soluble cations and anions in me/l, electrical conductivity in mmhos/cm (EC), saturated paste pH, saturation percentage (SAT), sodium absorption ratio (SAR), and exchangeable sodium percentage (ESP) - site averages for experimental watersheds, Ekalaka, Montana.

Treatment	Depth	Ca	Mg	Na	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	Cl	NO <sub>3</sub>	EC	pH	SAT	SAR	ESP
Inches															
me/l															
Site 3 - 1972															
F	0-4	9	3	18	0.3	0.0	5.6	0	0.00	0.00	4.0	6.6	47	12	13
F	4-8	15	8	32	0.4	0.0	5.2	0	0.00	0.00	3.3	7.2	64	12	14
F	8-12	15	13	44	0.5	0.0	3.7	0	0.00	0.00	4.1	7.2	74	14	16
F	12-16	14	15	49	0.6	0.0	3.5	0	0.00	0.00	4.8	7.3	76	14	16
R	0-4	3	3	21	0.2	0.0	5.5	0	0.00	0.00	1.5	6.5	44	12	14
R	4-8	10	7	36	0.2	0.0	6.9	0	0.00	0.00	3.3	7.0	55	14	16
R	8-12	16	14	48	0.4	0.0	6.5	0	0.00	0.00	5.2	7.3	63	14	16
R	12-16	13	18	60	0.6	0.0	5.4	0	0.00	0.00	6.3	7.2	73	16	18
C	0-4	5	5	26	0.2	0.0	5.6	0	0.00	0.00	2.3	6.8	59	14	16
C	4-8	4	3	31	0.1	0.0	6.1	0	0.00	0.00	2.2	7.5	63	17	19
C	8-12	15	13	47	0.4	0.0	5.6	0	0.00	0.00	4.9	7.7	67	14	16
C	12-16	17	14	49	0.5	0.0	3.8	0	0.00	0.00	53	7.8	66	14	16
Site 1 - 1976															
F	0-4	12	37	101	1.7	0.0	0.7	0	0.00	0.00	10.5	6.6	132	20	22
F	4-8	11	32	91	1.4	0.0	0.5	0	0.00	0.00	11.4	6.5	149	19	21
F	8-12	9	34	100	1.5	0.0	0.2	0	0.00	0.00	11.2	6.4	201	22	23
F	12-16	9	42	111	1.7	0.0	0.2	0	0.00	0.00	12.5	6.5	188	22	24
R	0-4	12	73	138	2.3	0.0	1.2	0	0.00	0.00	15.5	6.7	106	21	22
R	4-8	11	48	117	1.9	0.0	1.5	0	0.00	0.00	12.4	6.7	150	21	23
R	8-12	10	47	122	2.0	0.0	0.6	0	0.00	0.00	13.4	6.5	162	23	24
R	12-16	10	54	137	2.2	0.0	0.4	0	0.00	0.00	14.6	6.3	161	24	25
C	0-4	10	34	94	1.5	0.0	1.0	0	0.00	0.00	10.8	6.3	70	20	22
C	4-8	10	33	96	1.6	0.0	0.5	0	0.00	0.00	11.0	6.0	121	21	23
C	8-12	10	32	95	1.5	0.0	0.2	0	0.00	0.00	10.8	6.1	133	21	23
C	12-16	9	30	87	1.4	0.0	0.6	0	0.00	0.00	11.1	6.0	137	20	22

Table 9. Soluble cations and anions in me/l, electrical conductivity in mmhos/cm (EC), saturated paste pH, saturation percentage (SAT), sodium absorption ratio (SAR), and exchangeable sodium percentage (ESP) - site averages for experimental watersheds, Ekalaka, Montana.

Treatment	Depth	Ca	Mg	Na	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	Cl	NO <sub>3</sub>	EC	pH	SAT	SAR	ESP
		me/l										%			
Site 2 - 1976															
F	0-4	19	10	41	1.3	0.0	3.6	0	0.00	0.00	5.3	7.1	72	11	12
F	4-8	15	16	61	1.6	0.0	2.1	0	0.00	0.00	7.2	7.3	93	15	17
F	8-12	12	26	86	1.9	0.0	1.5	0	0.00	0.00	9.6	7.3	148	20	22
F	12-16	11	26	90	1.8	0.0	1.4	0	0.00	0.00	10.1	7.3	170	21	23
R	0-4	19	8	39	1.3	0.0	1.5	0	0.00	0.00	5.0	6.9	63	11	13
R	4-8	14	16	71	1.3	0.0	3.3	0	0.00	0.00	8.1	7.2	86	18	20
R	8-12	12	25	92	1.5	0.0	3.3	0	0.00	0.00	10.3	7.3	123	21	23
R	12-16	11	31	99	1.9	0.0	1.7	0	0.00	0.00	10.9	7.5	176	21	23
C	0-4	16	8	42	0.7	0.0	5.0	0	0.00	0.00	11.0	6.8	64	12	14
C	4-8	14	17	66	0.7	0.0	3.5	0	0.00	0.00	7.8	7.2	84	16	18
C	8-12	12	27	81	0.8	0.0	2.0	0	0.00	0.00	9.9	7.5	123	18	20
C	12-16	10	36	96	0.8	0.0	1.2	0	0.00	0.00	11.1	7.4	139	20	22
Site 3 - 1976															
F	0-4	12	5	27	0.4	0.0	4.2	0	0.00	0.00	3.1	6.7	46	13	14
F	4-8	8	6	36	0.4	0.0	3.3	0	0.00	0.00	3.9	7.3	62	14	16
F	8-12	13	11	48	0.6	0.0	1.9	0	0.00	0.00	5.7	7.4	70	15	16
F	12-16	15	15	58	0.8	0.0	1.8	0	0.00	0.00	6.9	7.4	81	15	17
R	0-4	6	3	19	0.4	0.0	5.1	0	0.00	0.00	2.0	6.4	43	10	12
R	4-8	8	5	33	0.2	0.0	5.6	0	0.00	0.00	3.2	6.9	49	15	17
R	8-12	12	12	52	0.5	0.0	5.4	0	0.00	0.00	5.9	7.3	61	15	17
R	12-16	9	15	62	0.7	0.0	3.6	0	0.00	0.00	5.9	7.7	75	19	21
C	0-4	6	4	37	0.3	0.0	4.6	0	0.00	0.00	3.0	6.8	49	18	20
C	4-8	9	5	41	0.3	0.0	4.7	0	0.00	0.00	3.6	7.6	62	16	18
C	8-12	14	13	59	0.6	0.0	4.2	0	0.00	0.00	6.2	7.5	67	16	18
C	12-16	13	13	62	0.8	0.0	2.9	0	0.00	0.00	6.6	7.6	71	17	19

## INTRODUCTION

Table 10. Dates of phenological growth stages for furrowed and nonfurrowed watersheds on three sites, Ekalaka, Montana, 1978-1980.

Phenological observations were made on watersheds 14, 16, 24, 26, 31, and 32 which included a furrowed (F) and nonfurrowed (NF) watershed on each of the three study sites. Four plants of each observed species were located on the upper and lower ends of each watershed. The species observed were Western wheatgrass, Green needlegrass, Alkali sacaton, and Nuttall saltbush. Western wheatgrass and thickspike wheatgrass were considered as a single species complex.

An explanation of growth stages used can be found in the discussion of phenology in Volume I of this report. Few Western-thickspike wheatgrass plants flowered in 1979. NR indicates no record.



Table 10.

Dates of phenological growth stages for furrowed and nonfurrowed watersheds on three sites, Ekalaka, Montana, 1978-1980.

Species and	1978						1979						1980					
	Site 1		Site 2		Site 3		Site 1		Site 2		Site 3		Site 1		Site 2		Site 3	
	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF
Growth stages																		
Western wheatgrass																		
Begin growth	4/10	4/10	4/13	4/13	4/13	4/13	4/24	4/24	4/24	4/24	4/24	4/24	4/15	4/15	4/15	4/15	4/15	4/15
Heading	6/1	6/1	6/14	6/14	6/14	6/14	NR	6/12	6/12	6/12	6/5	5/31	6/24	6/24	6/30	6/30	6/30	6/30
Ripe seed	7/10	7/10	7/10	7/10	7/10	7/10	NR	7/10	NR	NR	7/10	7/10	8/1	8/1	8/1	8/1	8/1	8/1
Postripe seed	8/3	8/3	8/3	8/3	8/3	8/3	NR	NR	NR	NR	8/1	8/1	8/15	8/15	8/15	8/15	8/15	8/15
Green needlegrass																		
Begin growth			4/13	NR	NR	NR	4/13		4/26	NR	NR	4/24	5/15	NR	NR	NR	4/15	
Heading			6/15	NR	NR	NR	6/15		6/26	NR	NR	6/26	6/24	NR	NR	NR	6/19	
Ripe seed			7/13	NR	NR	NR	7/13		7/10	NR	NR	7/10	7/10	NR	NR	NR	7/1	
Postripe seed			NR	NR	NR	NR	NR		NR	NR	NR	NR	7/31	NR	NR	NR	7/31	
Alkali sacaton																		
Begin growth	5/1	5/1					5/1	5/1					4/20	4/20				
Heading	6/29	6/25					6/20	6/20					6/9	6/9				
Ripe seed	7/10	7/10					7/10	7/10					6/24	6/24				
Postripe seed	8/4	8/4					8/1	7/25					7/10	7/10				
Nuttall saltbush																		
Begin growth	5/1	5/1	5/1	5/1	5/1	5/1	5/10	5/10	5/10	5/10	5/10	5/10	5/1	5/1	5/1	5/1	5/1	NR
Floral bud	6/5	6/5	6/14	6/14	NR	NR	6/10	6/10	6/24	6/24	6/12	6/15	6/1	6/1	6/24	6/24	NR	NR
Early dough	8/22	8/22	8/22	8/22	8/22	8/22	8/1	8/1	8/1	8/1	7/23	7/23	8/30	8/30	8/30	8/30	NR	NR
Ripe seed	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	9/30	9/30	9/30	NR	NR	NR

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	14
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## INTRODUCTION

Table 11. Average upstretched leaf height measured in inches on selected dates for four species on furrowed and nonfurrowed watersheds, Ekalaka, Montana, 1978-1980.

Upstretched leaf heights were measured as part of phenological observations on watersheds 14, 16, 24, 26, 31, and 32. These included a furrowed (F) and nonfurrowed (NF) watershed on each of the three study sites. Four plants of each observed species were located on the upper and lower ends of each watershed. The species observed were Western wheatgrass, Green needlegrass, Alkali sacaton, and Nuttall saltbush. Western wheatgrass and thickspike wheatgrass were considered as a single-species complex. NR indicates no record.

CHAPTER IV

The first part of the chapter discusses the importance of the study of the history of the United States. It is a study of the past which helps us to understand the present and to prepare for the future. The second part of the chapter discusses the importance of the study of the history of the world. It is a study of the past which helps us to understand the present and to prepare for the future. The third part of the chapter discusses the importance of the study of the history of the United States. It is a study of the past which helps us to understand the present and to prepare for the future.

Table 11. Average upstretched leaf height measured in inches on selected dates for four species on furrowed and nonfurrowed watersheds, Ekalaka, Montana, 1978.

Species and	4/13		4/26		5/17		5/24		5/29		6/5		6/14		6/22		6/29		7/13	
Site	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF
<b>Western wheatgrass</b>																				
Site 1	3.1	NR	4.3	3.1	NR	NR	7.1	5.5	NR	NR	7.1	6.7	7.9	6.7	8.3	6.7	8.7	7.1	NR	NR
Site 2	2.4	2.8	3.5	4.7	7.9	7.5	9.4	8.3	9.8	8.7	11.8	8.7	12.6	9.8	NR	NR	14.6	9.8	14.6	9.8
Site 3	NR	NR	4.7	3.5	NR	NR	11.8	7.1	11.8	7.2	11.8	10.6	15.0	8.7	15.4	10.2	15.4	10.2	15.4	11.0
<b>Green needle-grass</b>																				
Site 2	NR	NR	NR	NR	NR	NR	15.7	NR	19.7	NR	20.9	NR	NR	NR	NR	NR	26.8	NR	24.0 <sup>1</sup>	NR
Site 3	NR	NR	NR	NR	NR	NR	11.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
<b>Alkali Sacaton</b>																				
Site 1	2.4	NR	NR	2.4	NR	NR	6.7	4.7	NR	NR	6.7	5.5	7.9	5.9	7.9	6.3	8.7	6.7	NR	NR
<b>Nuttall saltbush</b>																				
Site 1	0	0	0	0	NR	NR	2.4	2.0	NR	NR	2.4	NR	3.1	3.9	6.7	5.9	7.1	6.7	NR	NR
Site 2	0	0	0	0	NR	NR	NR	NR	NR	3.1	NR	3.5	NR	3.5	NR	3.5	NR	3.5	7.5	4.7
Site 3	0	0	0	0	NR	NR	3.5	NR	NR	NR	NR	NR	9.4 <sup>2</sup>	2.8	3.9	3.1	5.1	NR	NR	NR

<sup>1</sup>Tips drying back  
<sup>2</sup>Floral stalk height

Table 11. Average upstretched leaf height measured in inches on selected dates for four species on furrowed and nonfurrowed watersheds, Ekalaka, Montana, 1979.

Species and	4/24		5/15		5/31		6/6		6/12		6/26		7/10		8/1	
	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF
<b>Western wheatgrass</b>																
Site 1	3.1	2.0	5.5	2.8	6.7	4.3	NR	NR	6.7	5.5	NR	NR	NR	12.6 <sup>1</sup>	24.0	NR
Site 2	3.1	3.1	5.9	4.3	7.1	6.3	7.1	7.1	NR	NR	7.9	7.1	8.3	7.1	13.8	11.0
Site 3	3.1	3.5	4.7	3.9	6.7	5.9	NR	NR	8.3	6.7	8.6	NR	14.6	9.1	NR	NR
<b>Green needle-grass</b>																
Site 2	3.9	NR	NR	NR	20.1	NR	NR	NR	NR	NR	28.0	NR	NR	NR	29.9	NR
Site 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
<b>Alkali sacaton</b>																
Site 1	0.4	NR	3.1	1.6	5.9	5.1	NR	NR	7.9	NR	NR	NR	NR	NR	16.9 <sup>1</sup>	11.0 <sup>1</sup>
<b>Nuttall saltbush</b>																
Site 1	0	0	0.4	0.4	NR	1.6	NR	NR	3.5	NR	NR	NR	9.8 <sup>1</sup>	NR	NR	NR
Site 2	0	0	0.4	0.4	0.8	0.8	NR	NR	NR	NR	2.0	0.8	2.4	0.8	NR	NR
Site 3	0	0	0.8	NR	3.5	3.1	NR	NR	5.1	NR	NR	NR	5.1	NR	NR	NR

<sup>1</sup>Floral stalk height

Table 11. Average upstretched leaf height measured in inches on selected date for four species on furrowed and nonfurrowed watersheds, Ekalaka, Montana, 1980.

Species and	4/10		5/1		5/15		6/1		6/9		6/20		6/25		6/30		7/10	
Site	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF
Western wheatgrass																		
Site 1	NR	NR	3.9	NR	3.9	NR	NR	4.3	NR	NR	NR	4.3	6.3	9.8 <sup>2</sup>	NR	NR	NR	5.9
Site 2	1.6	1.6	NR	4.7	NR	5.5	5.9	5.9	NR	NR	7.1	5.9	7.1	5.9	NR	5.9	NR	6.7
Site 3	1.2	1.6	5.1	4.7	5.5	NR	5.9	3.1	NR	NR	6.3	4.7	5.9	5.1	7.9	NR	7.9	5.1
Green needle-grass																		
Site 2	0.8	NR	9.4	NR	9.8	NR	7.9 <sup>1</sup>	NR	NR	NR	13.0	NR	14.2	10.2	12.2 <sup>1</sup>	NR <sup>2</sup>	12.2	NR
Site 3	NR	NR	NR	8.7	NR	10.6	NR	NR	NR	NR	NR	12.6	NR	17.7	NR	23.6 <sup>2</sup>	NR	NR
Alkali sacaton																		
Site 1	0.0	0.0	3.9	1.0	5.5	2.0	7.2	3.9	NR	NR	7.8	4.7	7.8	4.8	NR	NR	NR	NR
Nuttall saltbush																		
Site 1	0.0	0.0	1.2	NR	2.4	NR	NR	1.6	NR	NR	1.6	2.0	4.7	3.5	NR	NR	NR	NR
Site 2	0.0	0.0	NR	1.2	NR	1.6	NR	2.0	NR	NR	NR	3.1	NR	3.1	NR	NR	NR	5.9
Site 3	0.0	0.0	0.4	1.6	1.2	NR	1.2	NR	NR	NR	1.2	NR	1.2	NR	NR	NR	1.6	NR

<sup>1</sup>Tips drying back

<sup>2</sup>Floral stalk height



## INTRODUCTION

Table 12. Miscellaneous Phenological Data. Soil-Vegetation-Hydrology Study, Ekalaka, Montana, 1968-1977.

Table 12 summarizes phenological observations made on nonfurrowed-claypan and saline-upland range sites during the period 1968-1977.

Eight grasses and 13 forbs are listed. The growth stages are relative observations, and the terminology is not always consistent with that used in Table 10.



Table 12.

MISCELLANEOUS PHENOLOGICAL DATA  
Soil-Vegetation-Hydrology Study 1968-1977

GRASSES	Growth Stage	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Western wheat-thickspike wheatgrass considered as a wheatgrass complex	Begin growth Starting to head Heads fully out Flowering		6-11	6-16 6-22	6-8 6-16		5-30				4-14 6-15
Blue grama	Begin growth Initial flowering stage Seed ripe Mature										6-9 7-8
Buffalograss	Begin growth Initial flowering stage Seed ripe Mature										6-15 7-15
Prairie junegrass	Starting to head Heads fully out Flowering	6-4	5-27	6-16 6-22	5-25 6-8 6-16	5-31	6-5	5-22 6-4 6-17			5-19 5-26 6-9
Sandberg bluegrass	Begin growth Starting to head Heads fully out Flowering	5-28 6-19	5-20	5-27	5-17 5-25 6-8	6-16 5-25 5-31	5-16	5-22 6-4 6-17			4-14 5-12 5-26 6-1

Table 12. MISCELLANEOUS PHENOLOGICAL DATA  
Soil-Vegetation-Hydrology Study 1968-1977 (continued)

GRASSES	Growth Stage	Date of Occurrence									
		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Nuttall Alkaligrass	Begin growth										4-14
	Initial flowering stage										5-19
	Seed ripe										7-7
	Mature										
Alkali sacaton	Begin growth										5-1
	Initial flowering stage										6-30
	Seed ripe										7-8
	Mature										
Green needlegrass	Begin growth										4-14
	Initial flowering stage										
	Seed ripe										7-8
	Mature										
FORBS											
Yarrow	Starting to bloom				6-8	6-13					
	Full bloom		6-11								
Wild onion	Starting to bloom		5-19		5-25						5-19
	Full bloom		5-26		6-8	5-31		6-4			

Table 12. MISCELLANEOUS PHENOLOGICAL DATA  
Soil-Vegetation-Hydrology Study 1968-1977 (continued)

FORBS	Growth Stage	Date of Occurrence										
		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	
Two-grooved milkvetch	Starting to bloom Full bloom Pods falling		6-11	6-15	6-8	6-13	5-30	6-4			6-15 7-8	
Missouri milkvetch	Starting to bloom Full bloom		5-19			5-31	5-16	5-22			5-5	
Astragalus racemosus	Starting to bloom Full bloom		6-11	6-15 6-22	6-8		6-5 6-11	6-4 6-17			6-15	
Tufted milkvetch	Starting to bloom Full bloom		5-13	5-20		5-16	5-16					
Branched goldenweed	Starting to bloom Full bloom			6-15	6-8		6-5					
Parsleys: wild yellow parsley, wild parsley	Starting to bloom Full bloom	4-17	4-23 5-8	5-7 5-20		4-25 5-16	4-6 5-22	4-30	4-7		5-5	
Primrose (Gumbo lily)	Starting to bloom Full bloom		5-19	6-2	5-17	5-25	5-16	5-22			5-5	

Table 12.

MISCELLANEOUS PHENOLOGICAL DATA  
Soil-Vegetation-Hydrology Study 1968-1977 (continued)

FORBS	Growth Stage	Date of Occurrence											
		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977		
Phlox	Starting to bloom	4-17	4-23	5- 7		4-25	4-18	4-30					
	Full bloom		5- 8	5-20	5- 6	5- 3						5- 5	
	Bloom ending						5-16						
Prairie coneflower	Starting to bloom		6-11										
	Full bloom				7-14		7-17						
Prairie thermopsis	Starting to bloom			5-20	5-10	5-16		4-30					
	Full bloom		5- 8	5-28	5-17		5-16	5-22	5-29				
American vetch	Starting to bloom											5-19	
	Full bloom				5-21	5-31		5-22				5-26	

## INTRODUCTION

List of plant species found on the Soil-Vegetation-Hydrology research area near Ekalaka. The scientific names are current. Vulpina octoflora was previously Festuca octoflora. Xanthocephalum sarothrae was previously Gutierrezia sarothrae.



List of plant species found at the research area near Ekalaka.

Scientific name	Common name
<u>Grasses</u>	
<u>Agropyron dasystachyum</u> (Hook.) Scribn. & Smith	Thickspike wheat grass
<u>Agropyron smithii</u> Rydb.	Western wheatgrass
<u>Bouteloua gracilis</u> (HBK) Lag.	Blue grama
<u>Bromus japonicus</u> Thunb.	Japanese chess
<u>Bromus tectorum</u> L.	Downy chess brome
<u>Buchloe dactyloides</u> (Nutt.) Engelm.	Buffalograss
<u>Hordeum jubatum</u> L.	Foxtail barley
<u>Koeleria cristata</u> (L.) Pers.	Prairie junegrass
<u>Muhlenbergia cuspidata</u> (Torr.) Rydb.	Plains muhly
<u>Poa arida</u> Vasey	Plains bluegrass
<u>Poa sandbergii</u> Vasey	Sandberg bluegrass
<u>Puccinellia airoides</u> (Schult.) Hitchc.	Nuttall alkaligrass
<u>Schedonnardus paniculatus</u> (Nutt.) Trel.	Tumblegrass
<u>Sporobolus airoides</u> (Torr.) Torr.	Alkali sacaton
<u>Sporobolus cryptandrus</u> (Torr.) A. Gray	Sand dropseed
<u>Stipa comata</u> Trin. & Rupr.	Needleandthread
<u>Stipa viridula</u> Trin.	Green needlegrass
<u>Vulpina octoflora</u> (Walter) Rydb.	Sixweeks fescue

Grass-Like Plants

<u>Carex</u> sp.	Sedge
<u>Juncus</u> sp.	Rush

Forbs

<u>Achillea millefolium</u> L.	Common yarrow
<u>Allium textile</u> Nels. & Macbr.	Wild onion
<u>Antennaria parvifolia</u> Nutt.	Small-leaf pussytoes
<u>Aster canescens</u> Pursh.	Hoary aster
<u>Aster ericoides</u> L.	White prairie aster
<u>Astragalus bisulcatus</u> Hook.) Gray	Two-grooved milkvetch
<u>Astragalus missouriensis</u> Nutt.	Missouri milkvetch
<u>Astragalus racemosus</u> Pursh.	
<u>Astragalus triphyllus</u> Pursh.	Tufted milkvetch
<u>Atriplex dioica</u> (Nutt.) Macbr.	Rillscale
<u>Atriplex patula</u> L.	Spear saltbush
<u>Commandra pallida</u> A. DC	Bastard toad flax
<u>Cryptantha bradburiana</u> Payson	Miners candle
<u>Descurainia sophia</u> (L.) Webb	Tansymustard
<u>Erigeron canadensis</u> L.	Horseweed
<u>Erigeron pumilus</u> Nutt.	Fleabane
<u>Eriogonum milticeps</u> Nees.	
<u>Grindelia squarrosa</u> (Pursh.) Dunal	Gumweed
<u>Haplopappus multicaulis</u> (Nutt.) Gray	Branched goldenweed

List of plant species at the research area near Ekalaka (continued).

Scientific Name	Common Name
Forbs (continued)	
<u>Iva axillaris</u> Pursh.	Povertyweed
<u>Lappula echinata</u> Gilib.	European sticktight
<u>Lappula redowskii</u> (Hornem.) Greene	Western sticktight
<u>Lepidium</u> sp.	Pepperweed
<u>Lesquerella alpina</u>	Alkaline bladderpod
<u>Leucocrinum montanum</u> Nutt.	Mountain star lily
<u>Linum rigidum</u> Pursh.	Stiffstem flax
<u>Lomatium foeniculaceum</u> (Nutt.) C. & R.	Yellow wild parsley
<u>Lygodesmia juncea</u> (Pursh.) D. Don.	Rush skeletonweed
<u>Mamillaria vivipara</u> (Nutt.) Haw.	Ball cactus
<u>Microseris cuspidata</u> (Pursh.) Schultz-Bip	
<u>Monolepis nuttalliana</u> (R. & S.) Greene	Nuttall monolepis
<u>Musineon divaricatum</u> (Pursh.) Nutt.	Wild parsley
<u>Oenothera caespitosa</u> Nutt.	Gumbo lily
<u>Opuntia polycantha</u> Haw.	Pricklypear cactus
<u>Oxytropis lambertii</u> Pursh.	Purple pointloco
<u>Oxytropis sericea</u> Nutt.	White pointloco
<u>Penstemon eriantherus</u> Pursh.	Fuzzytongue penstemon
<u>Petalostemum candidum</u> Michx.	White prairie-clover
<u>Petalostemum purpureum</u> (Vent.) Rydb.	Purple prairie-clover
<u>Phlox hoodii</u> Rich.	Hoods phlox
<u>Plantago elongata</u> Pursh.	Slender plantain
<u>Plantago purshii</u> R. & S.	Woolly plantain
<u>Plantago spinulosa</u> DC.	Bracted plantain
<u>Polygonum aviculare</u> L.	Prostrate knotweed
<u>Ratibida columnifera</u> (Nutt.) Woot. & Standl.	Prairie coneflower
<u>Salsola kali</u> L.	Russian thistle
<u>Sphaeralcea coccinea</u> (Pursh.) Rydb.	Scarlet globemallow
<u>Taraxacum officinale</u> Weber	Common dandelion
<u>Thermopsis rhombifolia</u> Nutt.	Prairie thermopsis
<u>Thlaspi arvense</u> L.	Fanweed
<u>Tragopogon dubius</u> Scop.	Goatsbeard
<u>Vicia americana</u> Muhl.	American vetch

Shrubs

<u>Atriplex nuttallii</u> S. Wats.	Nuttall saltbush
<u>Artemisia frigida</u> Willd.	Fringed sagebrush
<u>Artemisia tridentata</u> Nutt.	Big sagebrush
<u>Xanthocephalum sarothrae</u> (Pursh.) Shinnars	Broom snakeweed

List of plant species at the research area near Ekalaka (continued).

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Scientific Name

Common Name

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Other

Lichens

Selaginella densa Rydb.

Sedum stenopetalum Pursh.

Lichens

Clubmoss

Yellow stonecrop

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## SYMBOLS AND ABBREVIATIONS

AGSM/AGDA	Western wheatgrass - thickspike-wheatgrass complex
ALF	Alfalfa
ARTR	Big sagebrush
ARFR	Fringed sagebrush
ATNU	Nuttall saltbush
BOGR	Blue grama
BUDA	Buffalo grass
C	Check (nonfurrowed plots)
CFS	Cubic feet per second
F	Furrowed plots or furrows
HOJU	Foxtail barley
KOCR	Prairie june grass
MISC GRAS	Miscellaneous grasses
MISC SHRB	Miscellaneous shrubs
NR	No record
POSE	Sandberg bluegrass
PPM	Parts per million
PUAI	Nuttall alkali grass
R	Ridges in furrowed plots
RO	Runoff
RWR	Russian wildrye
SCPA	Tumble grass
SPAI	Alkali sacaton
STVI	Green needlegrass
TOTF	Total forbs
TOTG	Total grasses
TOTS	Total shrubs
TOTY	Total yield
WS	Watershed
XASA (Formerly GUSA)	Broom snakeweed

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